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# Schircks Laboratories

## Pteridine Price List

Listed alphabetically

(Pteridines for laboratory use only)

Please note that the most up-to-date version of our price list can be always found at our website [www.schircks.com](http://www.schircks.com) Alphabetically listed or product number listed price lists are both available. Our price lists are not changed annually but are valid from the date noted until further notice.

**Additional charges:** Prices do not include local taxes or custom duties.

Schircks Laboratories pays shipping costs for products sent by normal airmail for all orders over USD 600.00. For orders less than USD 600.00 an additional USD 40.00 is charged. Courier charges ( FedEx ) are paid by Schircks Laboratories for orders over USD 3,500.00. Please see our Ordering Guidelines.

Product number	Product	MW (ref 3)	Ref. (see last page)	5 g USD	1 g USD	100 mg USD	50 mg USD	10 mg USD
<a href="#">11.418</a>	Acetyl-6-formylpterin	233.2	<a href="#">2</a>		1615.00	275.00	173.00	
<a href="#">16.702</a>	<i>p</i> -Aminobenzoyldi- $\gamma$ -L-glutamic acid, ammonium salt	446.5	<a href="#">2, 12</a>			183.00	105.00	
<a href="#">16.701</a>	<i>p</i> -Aminobenzoyl-L-glutamic acid	266.3			122.00			
<a href="#">16.707</a>	<i>p</i> -Aminobenzoylhepta- $\gamma$ -L-glutamic acid, ammonium salt <b>has been discontinued</b>	1177.2	<a href="#">2, 12</a>			380.00	210.00	
<a href="#">16.706</a>	<i>p</i> -Aminobenzoylhexa- $\gamma$ -L-glutamic acid, ammonium salt	1031.0	<a href="#">2, 12</a>			352.00	199.00	
<a href="#">16.705</a>	<i>p</i> -Aminobenzoylpenta- $\gamma$ -L-glutamic acid, ammonium salt	884.9	<a href="#">2, 12</a>			320.00	170.00	
<a href="#">16.704</a>	<i>p</i> -Aminobenzoyltetra- $\gamma$ -L-glutamic acid, ammonium salt	738.8	<a href="#">2, 12</a>			229.00	127.00	
<a href="#">16.703</a>	<i>p</i> -Aminobenzoyltri- $\gamma$ -L-glutamic acid, ammonium salt	592.6	<a href="#">2, 12</a>			202.00	118.00	
<a href="#">11.280</a>	4-Amino-L-biopterin [2,4-Diamino-6-(L-erythro-1',2'-dihydroxypropyl)pteridine]	236.2				359.00	204.00	69.00
<a href="#">16.403</a>	4-Amino-10-methylptericoic acid (APA, DAMPA)	325.3	<a href="#">11</a>		1533.00	248.00	148.00	
<a href="#">16.412</a>	4-Amino-10-methylpteroyldi- $\gamma$ -L-glutamic acid, ammonium salt [Methotrexate diglutamate]	634.7	<a href="#">2, 11, 15</a>			1076.00	603.00	187.00
<a href="#">16.417</a>	4-Amino-10-methylpteroylhepta- $\gamma$ -L-glutamic acid, ammonium salt [Methotrexate heptaglutamate]	1365.4	<a href="#">2, 11, 15</a>			2208.00	1220.00	413.00
<a href="#">16.416</a>	4-Amino-10-methylpteroylhexa- $\gamma$ -L-glutamic acid, ammonium salt [Methotrexate hexaglutamate]	1219.2	<a href="#">2, 11, 15</a>			2087.00	1159.00	378.00
<a href="#">16.415</a>	4-Amino-10-methylpteroylpenta- $\gamma$ -L-glutamic acid, ammonium salt [Methotrexate pentaglutamate]	1073.1	<a href="#">2, 11, 15</a>			1840.00	1012.00	313.00
<a href="#">16.414</a>	4-Amino-10-methylpteroyltetra- $\gamma$ -L-glutamic acid, ammonium salt [Methotrexate tetraglutamate]	926.9	<a href="#">2, 11, 15</a>			1320.00	736.00	248.00
<a href="#">16.413</a>	4-Amino-10-methylpteroyltri- $\gamma$ -L-glutamic acid, ammonium salt [Methotrexate	780.8	<a href="#">2, 11, 15</a>			1145.00	637.00	196.00

Product number	Product	MW (ref 3)	Ref. (see last page)	5 g USD	1 g USD	100 mg USD	50 mg USD	10 mg USD
	triglutamate]							
<a href="#">16.330</a>	Aminopterin [4-Aminofolic acid]	440.4	<a href="#">11</a>		1435.00	232.00	140.00	
<a href="#">11.283</a>	4-Amino-(6R)-5,6,7,8-tetrahydro-L-biopterin dihydrochloride	313.2	<a href="#">1</a>				2118.00	707.00
<a href="#">11.282</a>	4-Amino-(6R,S)-5,6,7,8-tetrahydro-L-biopterin dihydrochloride	313.2	<a href="#">1</a>			538.00	304.00	100.00
<a href="#">11.231</a>	7-Biopterin	237.2	<a href="#">6</a>			1076.00	608.00	199.00
<a href="#">11.218</a>	D-Biopterin [D-erythro-Biopterin]	237.2	<a href="#">2</a>			997.00	554.00	163.00
<a href="#">11.221</a>	D-threo-Biopterin [Dictyopterin]	237.2				524.00	292.00	87.00
<a href="#">11.203</a>	L-Biopterin [L-erythro-Biopterin]	237.2	<a href="#">2</a>	872.00	262.00	59.00		
<a href="#">11.228</a>	Deoxysepiapterin	221.2				707.00	422.00	124.00
<a href="#">11.206</a>	7,8-Dihydro-L-biopterin	239.2	<a href="#">2</a>	2619.00	710.00	127.00	81.00	
<a href="#">16.206</a>	7,8-Dihydrofolic acid	443.4	<a href="#">1, 2</a>		1005.00	170.00	99.00	
<a href="#">11.345</a>	7,8-Dihydro-L-monapterin	255.2				361.00	221.00	73.00
<a href="#">11.306</a>	7,8-Dihydro-D-neopterin	255.2	<a href="#">2</a>		1271.00	253.00	160.00	44.00
<a href="#">11.315</a>	7,8-Dihydro-D-neopterin-3'-monophosphate, lithium salt	347.1	<a href="#">1, 9</a>			753.00	447.00	131.00
<a href="#">11.307</a>	7,8-Dihydro-D-neopterin-3'-triphosphate (Please refer to our reference 8)		<a href="#">8</a>					
<a href="#">11.906</a>	7,8-Dihydropterin (Please refer to our reference 20)		<a href="#">20</a>					
<a href="#">11.716</a>	Dihydroxanthopterin	181.2				160.00	106.00	
<a href="#">11.506</a>	6,7-Dimethyl-7,8-dihydropterin monohydrochloride	229.7				215.00	135.00	41.00
<a href="#">11.503</a>	6,7-Dimethylpterin	191.2			69.00	20.00		
<a href="#">11.509</a>	6,7-Dimethyl-5,6,7,8-tetrahydropterin monohydrochloride	231.7		1454.00	393.00	83.00		
<a href="#">96.203</a>	(5- <sup>15</sup> N)-Folic acid	442.4	<a href="#">18</a>			2736.00	1533.00	428.00
<a href="#">16.203</a>	Folic acid	441.4	<a href="#">12</a>	20.00				
<a href="#">11.416</a>	6-Formyl-7,8-dihydropterin	193.2				1465.00	864.00	289.00
<a href="#">16.215</a>	10-Formylfolic acid	469.4	<a href="#">12, 19</a>	865.00	269.00	61.00		
<a href="#">11.415</a>	6-Formylpterin [Pterin-6-aldehyde]	191.1			1235.00	225.00	144.00	44.00
<a href="#">16.140</a>	10-Formylpteronic acid	340.3				378.00	232.00	69.00
<a href="#">16.217</a>	10-Formyl-5,6,7,8-tetrahydrofolic acid (Please refer to our reference 19)		<a href="#">19</a>					
<a href="#">16.220</a>	(6R,S)-5-Formyl-5,6,7,8-tetrahydrofolic acid, calcium salt	511.5	<a href="#">2, 12, 14</a>	204.00	65.00			
<a href="#">16.222</a>	(6R)-5-Formyl-5,6,7,8-tetrahydrofolic acid, calcium salt (unnatural calcium folinate)	511.5	<a href="#">2, 12</a>		1105.00	158.00	89.00	
<a href="#">16.280</a>	(6R,S)-5-Formyl-5,6,7,8-tetrahydropteronic acid	344.3				140.00	89.00	
<a href="#">16.282</a>	(6R,S)-5-Formyl-5,6,7,8-tetrahydropteroyldi-γ-L-glutamic acid, lithium salt <b>has been discontinued</b>	620.4						293.00
<a href="#">16.286</a>	(6R,S)-5-Formyl-5,6,7,8-tetrahydropteroylhexa-γ-L-glutamic acid, lithium salt	1160.6						652.00
<a href="#">16.285</a>	(6R,S)-5-Formyl-5,6,7,8-tetrahydropteroylpenta-γ-L-glutamic acid, lithium salt	1025.5						506.00

Product number	Product	MW (ref 3)	Ref. (see last page)	5 g USD	1 g USD	100 mg USD	50 mg USD	10 mg USD
<a href="#">16.284</a>	(6R,S)-5-Formyl-5,6,7,8-tetrahydropteroyltetra- $\gamma$ -L-glutamic acid, lithium salt	890.5						399.00
<a href="#">16.283</a>	(6R,S)-5-Formyl-5,6,7,8-tetrahydropteroyltri- $\gamma$ -L-glutamic acid, lithium salt <b>has been discontinued</b>	755.4						311.00
<a href="#">13.206</a>	6-Hydroxy-7,8-dihydrolumazine	182.1				217.00	136.00	
<a href="#">11.270</a>	4-Hydroxy-6-(L-erythro-1,2-dihydroxypropyl)-2-(methylthio)pteridine	268.3			4261.00	608.00	367.00	99.00
<a href="#">13.203</a>	6-Hydroxylumazine	180.1				143.00	89.00	
<a href="#">13.220</a>	7-Hydroxylumazine	180.1				196.00	116.00	
<a href="#">16.500</a>	7-Hydroxymethotrexate	470.4	<a href="#">12</a>				153.00	65.00
<a href="#">11.421</a>	6-Hydroxymethyl-7,8-dihydropterin hydrochloride	231.6	<a href="#">1, 2</a>		1998.00	404.00	259.00	91.00
<a href="#">11.422</a>	6-Hydroxymethyl-7,8-dihydropterin-diphosphate (Please refer to our reference 8)		<a href="#">8</a>					
<a href="#">11.420</a>	6-Hydroxymethylpterin	193.2	<a href="#">2</a>		1641.00	269.00	170.00	60.00
<a href="#">11.438</a>	6-Hydroxymethylpterin-diphosphate, lithium salt	370.9	<a href="#">2, 9, 12</a>			1343.00	762.00	217.00
<a href="#">11.429</a>	6-Hydroxymethylpterin-monophosphate	273.1	<a href="#">12</a>			598.00	382.00	104.00
<a href="#">11.423</a>	(6R,S)-6-Hydroxymethyl-5,6,7,8-tetrahydropterin dihydrochloride	270.1	<a href="#">1, 2</a>			486.00	277.00	95.00
<a href="#">11.229</a>	6-((1R,S)-Hydroxypropyl)pterin [(1'R,S)-2'-Deoxybiopterin]	221.2				942.00	518.00	179.00
<a href="#">11.320</a>	3'-Hydroxy-D-sepiapterin	253.2				804.00	473.00	143.00
<a href="#">11.723</a>	Isoxanthopterin	179.1				83.00	53.00	
<a href="#">11.703</a>	Leucopterin	195.1				29.00		
<a href="#">13.103</a>	Lumazine	164.1			148.00	29.00		
<a href="#">16.230</a>	(6R,S)-5,10-Methenyl-5,6,7,8-tetrahydrofolic acid chloride	491.9			720.00	105.00	70.00	
<a href="#">16.411</a>	Methotrexate (see product no.s 16.412-16.417 for MTX polyglutamates)	454.4	<a href="#">2, 11, 12</a>	1011.00	338.00	90.00		
<a href="#">16.233</a>	(6R,S)-5-Methyl-5,6-dihydrofolic acid, ammonium salt	492.5	<a href="#">12</a>			410.00	250.00	74.00
<a href="#">11.481</a>	6-Methyl-7,8-dihydropterin hydrochloride	215.6				258.00	161.00	45.00
<a href="#">16.211</a>	10-Methylfolic acid	455.4				178.00	114.00	
<a href="#">11.480</a>	6-Methylpterin	177.2			643.00	116.00	69.00	
<a href="#">11.217</a>	(6R)-5-Methyl-5,6,7,8-tetrahydro-L-biopterin dihydrochloride	328.2				312.00	202.00	77.00
<a href="#">16.235</a>	(6R,S)-5-Methyl-5,6,7,8-tetrahydrofolic acid, calcium salt	497.5	<a href="#">2, 12</a>	1383.00	460.00	90.00	55.00	
<a href="#">16.236</a>	(6S)-5-Methyl-5,6,7,8-tetrahydrofolic acid, calcium salt	497.5	<a href="#">1, 2, 12</a>	1786.00	595.00	119.00	71.00	
<a href="#">11.483</a>	(6R,S)-6-Methyl-5,6,7,8-tetrahydropterin dihydrochloride	254.1	<a href="#">1</a>	3480.00	933.00	159.00		
<a href="#">16.242</a>	(6R,S)-5-Methyl-5,6,7,8-tetrahydropteroyldi- $\gamma$ -L-glutamic acid trihydrochloride <b>has been discontinued</b>	698.0	<a href="#">21</a>					495.00
<a href="#">16.245</a>	(6R,S)-5-Methyl-5,6,7,8-tetrahydropteroylpenta- $\gamma$ -L-glutamic acid trihydrochloride <b>has been discontinued</b>	1085.3	<a href="#">21</a>					975.00
<a href="#">16.244</a>	(6R,S)-5-Methyl-5,6,7,8-tetrahydropteroyltetra- $\gamma$ -L-glutamic acid trihydrochloride	956.2	<a href="#">21</a>					840.00
<a href="#">16.243</a>	(6R,S)-5-Methyl-5,6,7,8-tetrahydropteroyltri- $\gamma$ -L-glutamic acid trihydrochloride	827.1	<a href="#">21</a>					611.00

Product number	Product	MW (ref 3)	Ref. (see last page)	5 g USD	1 g USD	100 mg USD	50 mg USD	10 mg USD
<a href="#">11.349</a>	D-Monapterin [D-threo-Neopterin]	253.2				170.00	106.00	
<a href="#">11.340</a>	L-Monapterin [L-threo-Neopterin]	253.2			858.00	151.00	100.00	
<a href="#">11.330</a>	7-Neopterin	253.2	<a href="#">10</a>			736.00	439.00	128.00
<a href="#">91.303</a>	D-(5- <sup>15</sup> N)-Neopterin	254.2				818.00	492.00	160.00
<a href="#">11.303</a>	D-Neopterin [D-erythro-Neopterin]	253.2	<a href="#">2</a>	2073.00	572.00	100.00		
<a href="#">11.314</a>	D-Neopterin-3'-monophosphate, lithium salt	345.1				499.00	298.00	115.00
<a href="#">11.260</a>	Oncopterin	354.4	<a href="#">8</a>					
<a href="#">11.903</a>	Pterin	163.1	<a href="#">2</a>	530.00	148.00	40.00		
<a href="#">11.403</a>	Pterin-6-carboxylic acid	207.1	<a href="#">2</a>		573.00	95.00		
<a href="#">11.409</a>	Pterin-7-carboxylic acid	207.1			797.00	160.00	106.00	
<a href="#">16.113</a>	Pteronic acid	312.3	<a href="#">2</a>		1208.00	148.00	99.00	
<a href="#">16.252</a>	Pteroyldi- $\gamma$ -L-glutamic acid	570.5	<a href="#">2, 12</a>			1130.00	638.00	198.00
<a href="#">16.267</a>	Pteroylhepta- $\gamma$ -L-glutamic acid, ammonium salt	1352.3	<a href="#">2, 15</a>			2425.00	1380.00	462.00
<a href="#">16.266</a>	Pteroylhexa- $\gamma$ -L-glutamic acid, ammonium salt	1206.2.0	<a href="#">2, 15</a>			2208.00	1240.00	409.00
<a href="#">16.255</a>	Pteroylpenta- $\gamma$ -L-glutamic acid <b>has been discontinued</b>	957.9	<a href="#">2, 15</a>			1944.00	1078.00	338.00
<a href="#">16.254</a>	Pteroyltetra- $\gamma$ -L-glutamic acid	828.7	<a href="#">2, 15</a>			1380.00	777.00	269.00
<a href="#">16.253</a>	Pteroyltri- $\gamma$ -L-glutamic acid <b>has been discontinued</b>							
<b>97.000</b>	<b>Radioactive compounds</b> (Please refer to our reference 18)		<a href="#">18</a>					
<a href="#">11.209</a>	(6R,S)-5,6,7,8-Tetrahydro-L-biopterin dihydrochloride	314.2	<a href="#">1, 2</a>	1068.00	299.00	87.00		
<a href="#">11.234</a>	7-Tetrahydro-L-biopterin dihydrochloride	314.2	<a href="#">1, 7</a>			1370.00	752.00	262.00
<a href="#">11.220</a>	(6R,S)-5,6,7,8-Tetrahydro-D-biopterin dihydrochloride	314.2	<a href="#">1</a>			595.00	335.00	112.00
<a href="#">11.223</a>	(6R,S)-5,6,7,8-Tetrahydro-D-threo-biopterin dihydrochloride	314.2	<a href="#">1, 5</a>			623.00	351.00	118.00
<a href="#">11.212</a>	(6R)-5,6,7,8-Tetrahydro-L-biopterin dihydrochloride	314.2	<a href="#">1, 2</a>	1148.00	347.00	121.00		
<a href="#">11.213</a>	(6R)-5,6,7,8-Tetrahydro-L-biopterin dihydrochloride	314.2	<a href="#">22</a>	1030.00	280.00	65.00		
<a href="#">11.215</a>	(6S)-5,6,7,8-Tetrahydro-L-biopterin sulfate	339.3	<a href="#">1, 2,</a>	4875.00	1625.00	407.00		101.00
<a href="#">11.216</a>	(6S)-5,6,7,8-Tetrahydro-L-biopterin sulfate	339.3	<a href="#">22</a>	4646.00	1485.00	323.00	195.00	
<a href="#">16.209</a>	(6R,S)-5,6,7,8-Tetrahydrofolic acid trihydrochloride	554.8	<a href="#">1, 2, 13</a>		619.00	145.00		
<a href="#">16.208</a>	(6S)-5,6,7,8-Tetrahydrofolic acid trihydrochloride	554.8	<a href="#">1, 2, 13</a>		824.00	207.00		
<a href="#">11.346</a>	(6R,S)-5,6,7,8-Tetrahydro-L-monapterin dihydrochloride	330.2	<a href="#">1</a>			248.00	161.00	
<a href="#">11.309</a>	(6R,S)-5,6,7,8-Tetrahydro-D-neopterin dihydrochloride	330.2	<a href="#">1</a>		666.00	160.00		
<a href="#">11.909</a>	5,6,7,8-Tetrahydropterin dihydrochloride	240.1	<a href="#">1</a>			116.00		
<a href="#">11.182</a>	(6R,S)-5,6,7,8-Tetrahydro-L-rhamnopterin dihydrochloride	344.2	<a href="#">1</a>			245.00	161.00	60.00
<a href="#">16.123</a>	N10-(Trifluoroacetyl)pteronic acid	408.3			1694.00	215.00	124.00	
<a href="#">11.180</a>	6-(L-1,2,3-Trihydroxybutyl)-pterin [Rhamnopterin]	267.2				161.00	105.00	

Product number	Product	MW (ref 3)	Ref. (see last page)	5 g USD	1 g USD	100 mg USD	50 mg USD	10 mg USD
<a href="#">11.713</a>	Xanthopterin	179.1				56.00		
<a href="#">16.901</a>	Z-Glu-OtBu	337.4		25.00				
<a href="#">16.902</a>	Z-Glu <sub>2</sub> -OtBu <sub>3</sub>	578.7	<a href="#">12</a> , <a href="#">17</a>		115.00	14.00		
<a href="#">16.903</a>	Z-Glu <sub>3</sub> -OtBu <sub>4</sub>	763.9	<a href="#">12</a>		204.00	28.00		
<a href="#">16.904</a>	Z-Glu <sub>4</sub> -OtBu <sub>5</sub>	949.1	<a href="#">12</a>		323.00	44.00		
<a href="#">16.905</a>	Z-Glu <sub>5</sub> -OtBu <sub>6</sub>	1134.4	<a href="#">12</a>		476.00	64.00		
<a href="#">16.906</a>	Z-Glu <sub>6</sub> -OtBu <sub>7</sub>	1319.6	<a href="#">12</a>		649.00	95.00		

**Data sheets** can be found by clicking on the product number of your choice. Full data sheets are available for several products and short version data sheets (structural formula and HPLC conditions when appropriate) are given for the remaining products.

**Ref. no.** **Reference details**

- 1 Ampoules: the ampoules can be opened by cutting a deep groove around the neck of the ampoule with a glass knife, wrapping the ampoule in a towel and breaking it. Remaining rests can be removed after the ampoule has been sonicated.
- 2 Data sheets will be sent on request with orders for this product or the data sheet can be viewed on our website by clicking on the product number on the pteridine price list.  
Please note that we **only** have data sheets for the products with reference number 2. Data sheets for other products will appear on the website as soon as they are prepared. HPLC conditions and chemical structure are given for most of our products on our website.
- 3 Molecular weight without water
- 5 (6R,S)-5,6,7,8-Tetrahydrodictyopterin dihydrochloride
- 6 7-(L-erythro-1',2'-Dihydroxypropyl)pterin; L-Primapterin
- 7 (7R,S)-5,6,7,8-Tetrahydro-L-primapterin dihydrochloride
- 8 We are not in a position to synthesize this compound and don't foresee synthesizing it in the future. We do not know of any other manufacturer of this compound. Please do not send requests for this compound.
- 9 This compound is sensitive to high temperatures and must be sent by courier. These charges are not included. To be sent only October to March.
- 10 7-(D-erythro-1',2',3'-Trihydroxypropyl)pterin; D-Anapterin
- 11 Toxic
- 12 Contains 2-4 H<sub>2</sub>O/Mol
- 13 6R,S-FH<sub>4</sub>·3HCl (16.209) and 6S-FH<sub>4</sub>·3HCl (16.208) are freely soluble in water. 6S-FH<sub>4</sub> (16.207) is a free acid and is practically insoluble in water.
- 14 Folinic acid, calcium salt
- 15 Contains 4-7 H<sub>2</sub>O/Mol
- 16 We have not yet synthesized H<sub>4</sub>Pte-Glu<sub>n</sub> and we don't foresee doing so in the future.
- 17 N-Benzoyloxycarbonyldi-γ-L-glutamic acid tri-tert-butyl ester
- 18 **We are not permitted to synthesize radioactive compounds.**

- 19 We do not manufacture 10-Formyl-5,6,7,8-tetrahydrofolic acid because of its instability. We recommend that you synthesize it according to P. Stover, Anal Biochem. 202, (1992), 82, starting with one of the following intermediates Methenyl-FH<sub>4</sub> (product no. 16.230) or (6R,S)-5-Formyl-5,6,7,8-tetrahydrofolic acid, calcium salt (product no. 16.220) or (6S)-5-Formyl-5,6,7,8-tetrahydrofolic acid, calcium salt (natural calcium folinate) (product no. 16.221) all of which we can provide.
- 20 We do not manufacture Dihydropterin because of its instability. We recommend that you synthesize it according to SJR Heales and K. Hyland, Production of stable solutions of 7,8-Dihydropterin, Pteridines, 1, (1989), 151, starting with Tetrahydropterin (product no. 11.909).
- 21 These products are only 85-95% pure.
- 22 In vials, put in a freezer immediately on arrival. BH4 in vials is stable for at least two months at +20°C.