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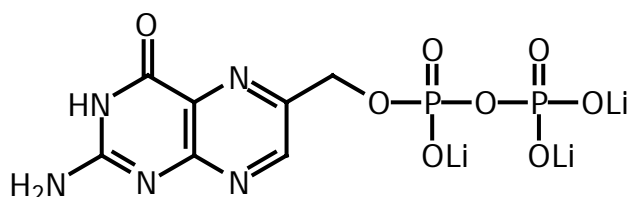
Schircks Laboratories

DATA SHEET

6-Hydroxymethylpterin diphosphate, lithium salt

Product No. 11.438

Abbreviation used: 6HMPPP



$C_7H_8Li_3N_5O_8P_2$

MW: 370.9

Description	Light yellow powder		
Analytical methods	HPLC Conditions	column	Waters Spherisorb S5-ODS1
		eluant	0.4 M Na_2HPO_4 pH 6.0
		flow rate	1.0 ml/min
		wavelength	254 nm
		solution	1 mg/ml buffer
Purity: HPLC	>95% with 6-hydroxymethylpterin monophosphate as the main impurity.		
pH of 1 mM solution	7.0		
Solubility	6-Hydroxymethylpterin-diphosphate (6HMPPP) is sparingly soluble in water, (1.6 g/100 g water (22°C)). Ultrasonication may be used to improve dissolution.		
Stability	6HMPPP is hygroscopic. 6HMPPP dry powder is unstable at room temperature and is light sensitive. Stored at room temperature, it produces 0.3% monophosphate per day. This degradation rate is even over time giving almost 30% degradation in 3 months. A 1 mM solution of 6-hydroxymethylpterin diphosphate shows 2.2% degradation in 24 hours. More degradation occurs in acidic solutions than in neutral solutions and one of the phosphate groups is cleaved giving 6-hydroxymethylpterin monophosphate.		
Storage	Keep the powder dry in amber vials at $-20^\circ C$ or colder. 6HMPPP can be transported without the use of dry ice by courier and should be put immediately in a freezer on arrival.		
Use	6HMPPP is an important standard for analytical work. It is sold for laboratory use only.		
Safety	6HMPPP is known to be safe and there are no special precautions required in handling this product.		
Shipping	This compound is sensitive to high temperatures and must be sent by courier. To be sent only October to March.		

Further data sheets can be found on our website www.schircks.ch