

## 7,8-Dihydro-L-biopterin

## Chemical Properties

CAS No. : 6779-87-9

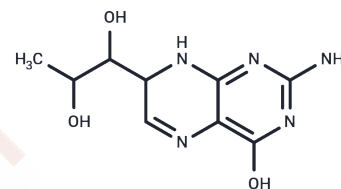
Formula: C<sub>9</sub>H<sub>13</sub>N<sub>5</sub>O<sub>3</sub>

Molecular Weight: 239.23

Storage:

Store at low temperature, Store under nitrogen, Keep away from direct sunlight, Keep away from moisture  
Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	7,8-Dihydro-L-biopterin is an oxidation product of tetrahydrobiopterin.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 125 mg/mL (522.51 mM), Sonication is recommended. H <sub>2</sub> O: 6 mg/mL (25.08 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.43 mg/mL (5.98 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (16.72 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	4.1801 mL	20.9004 mL	41.8008 mL
5 mM	0.836 mL	4.1801 mL	8.3602 mL
10 mM	0.418 mL	2.090 mL	4.1801 mL
50 mM	0.0836 mL	0.418 mL	0.836 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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