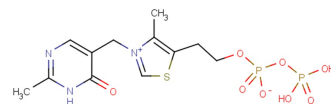


## Oxythiamine diphosphate

## Chemical Properties

CAS No.:	10497-04-8
Formula:	C <sub>12</sub> H <sub>17</sub> N <sub>3</sub> O <sub>8</sub> P <sub>2</sub> S
Molecular Weight:	425.29
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Oxythiamine diphosphate is a competitive thiamine pyrophosphate inhibitor (K <sub>i</sub> of 30 nM).
Targets (IC <sub>50</sub> )	thiamine pyrophosphate (K <sub>i</sub> ): K <sub>i</sub> : 30 nM

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.351 mL	11.757 mL	23.513 mL
5 mM	0.47 mL	2.351 mL	4.703 mL
10 mM	0.235 mL	1.176 mL	2.351 mL
50 mM	0.047 mL	0.235 mL	0.47 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Heinrich PC, et al. Studies on the reconstitution of apotransketolase with thiamine pyrophosphate and analogs of the coenzyme. Eur J Biochem. 1972 Nov 7;30(3):533-41.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481