
Product Data Sheet

Product Name: Oxythiamine diphosphate

Cat. No.: GC36830

Chemical Properties

Cas. No. 10497-04-8

SMILES CC1=C(CCOP(OP(O)(O)=O)([O-])=O)SC=[N+]1CC2=CN=C(C)NC2=OFormula $C_{12}H_{17}N_3O_8P_2S$ M.Wt 425.29

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Oxythiamine diphosphate is a competitive inhibitor of thiamine pyrophosphate, with a K_i of 30 nM[1]. K_i : 30 nM (thiamine pyrophosphate)[1].

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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