
Product Data Sheet

Product Name: Thiamine diphosphate analog 1

Cat. No.: GC37781

Chemical Properties

Cas. No. 2606-90-8

SMILES O=P(O)(OP(O)(O)=O)OCCC1=C(C)N=CS1Formula $C_6H_{11}NO_7P_2S$ M.Wt 303.17

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**

Thiamine diphosphate analog 1 is an analog of Thiamine diphosphate[1]. Thiamine diphosphate is the active form of vitamin B1. Thiamine diphosphate a universal cofactor involved in pivotal cellular pathways[2].

[1]. Tomita I, et al. Coenzyme analogue inhibition in the reconstitution of yeast pyruvate decarboxylase and transketolase. *Biochem Biophys Res Commun.* 1974 Mar 15;57(1):78-84. [2]. Kowalska E, et al. Altered expression and activities of enzymes involved in thiamine diphosphate biosynthesis in *Saccharomyces cerevisiae* under oxidative and osmotic stress. *FEMS Yeast Res.* 2012 Aug;12(5):534-46.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA