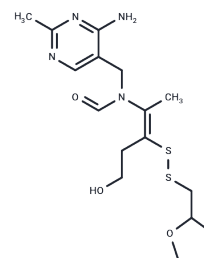


Fursultiamine

Chemical Properties

CAS No. :	804-30-8
Formula:	C17H26N4O3S2
Molecular Weight:	398.54
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Fursultiamine (Alinamin F) is a disulfide derivative of thiamine, or an allithiamine. It has potential uses in the treatment of vitamin B1 deficiency.
Targets(IC50)	Others,NF-κB,Mitochondrial Metabolism,Ferroportin,VEGFR

Solubility Information

Solubility	Ethanol: Soluble, DMSO: 50 mg/mL (125.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.02 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

	1mg	5mg	10mg
1 mM	2.5092 mL	12.5458 mL	25.0916 mL
5 mM	0.5018 mL	2.5092 mL	5.0183 mL
10 mM	0.2509 mL	1.2546 mL	2.5092 mL
50 mM	0.0502 mL	0.2509 mL	0.5018 mL

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.

Reference

Kobayashi T, et al. Fursultiamine, a vitamin B1 derivative, enhances chondroprotective effects of glucosamine hydrochloride and chondroitin sulfate in rabbit experimental osteoarthritis. *Inflamm Res*. 2005 Jun;54(6):249-55.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481