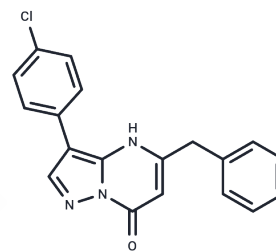


Transketolase-IN-4

Chemical Properties

CAS No. :	419547-73-2
Formula:	C ₁₉ H ₁₄ ClN ₃ O
Molecular Weight:	335.79
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Transketolase-IN-4 is a transketolase inhibitor with an IC ₅₀ value of 3.9 μM. Transketolase-IN-4 inhibited Mycobacterium tuberculosis DXS with an IC ₅₀ value of 114.1 μM. Transketolase-IN-4 inhibited the SW620, LS174T, and MIA PaCa-2 tumor cell proliferation.
Targets(IC ₅₀)	Antibacterial, Transketolase

Solubility Information

Solubility	DMSO: 112.5 mg/mL (335.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9781 mL	14.8903 mL	29.7805 mL
5 mM	0.5956 mL	2.9781 mL	5.9561 mL
10 mM	0.2978 mL	1.489 mL	2.9781 mL
50 mM	0.0596 mL	0.2978 mL	0.5956 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

- Du MX, et al. Identification of novel small-molecule inhibitors for human transketolase by high-throughput screening with fluorescent intensity (FLINT) assay. *J Biomol Screen.* 2004;9(5):427-433.
- Mao J, et al. Structure-activity relationships of compounds targeting mycobacterium tuberculosis 1-deoxy-D-xylulose 5-phosphate synthase. *Bioorg Med Chem Lett.* 2008;18(19):5320-5323.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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