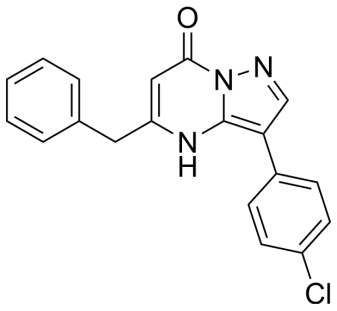
Transketolase-IN-4

Cat. No.:	HY-153090
CAS No.:	419547-73-2
Molecular Formula:	$C_{19}H_{14}ClN_3O$
Molecular Weight:	335.79
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (372.26 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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	1.4890 mL	2.9781 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Transketolase-IN-4 is a potent transketolase inhibitor (IC_{50}=3.9 μM). Transketolase-IN-4 inhibits tumor cell proliferation of SW620, LS174T, and MIA PaCa-2. Transketolase-IN-4 is a possible Mycobacterium tuberculosis DXS inhibitor, with an IC50 value of 114.1 μM[1][2].

IC_{50} & Target

IC50: 3.9 μM (Transketolase)[1]; 114.1 μM (Mycobacterium tuberculosis DXS)[2]

REFERENCES

[1]. 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 Aug;9(5):427-33.

[2]. Mao J, et al. Structure-activity relationships of compounds targeting mycobacterium tuberculosis 1-deoxy-D-xylulose 5-phosphate synthase. Bioorg Med Chem Lett. 2008 Oct 1;18(19):5320-3.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA