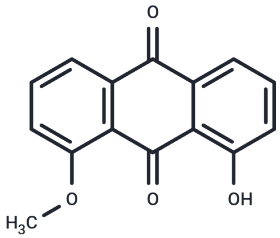
Data Sheet (Cat.No.T26397)

TargetMol

6PGD-IN-S3

Chemical Properties



CAS No. : 5539-66-2

Formula: C15H10O4

Molecular Weight: 254.24

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	6PGD-IN-S3 (6PGD Inhibitor S3) is an inhibitor of 6-phosphogluconate dehydrogenase (6PGD).
Targets(IC50)	Others,Endogenous Metabolite,Dehydrogenase

Solubility Information

Solubility	DMSO: 2.55 mg/mL (10.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9333 mL	19.6665 mL	39.3329 mL
5 mM	0.7867 mL	3.9333 mL	7.8666 mL
10 mM	0.3933 mL	1.9666 mL	3.9333 mL
50 mM	0.0787 mL	0.3933 mL	0.7867 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

YPan, CShan, SWu, et al. Targeting 6-phosphogluconate dehydrogenase in the oxidative PPP sensitizes leukemia cells to antimalarial agent dihydroartemisinin[J]. Oncogene, 2017.

Lin R, Elf S, Shan C, Kang HB, Ji Q, Zhou L, Hitosugi T, Zhang L, Zhang S, Seo JH, Xie J, Tucker M, Gu TL, Sudderth J, Jiang L, Mitsche M, DeBerardinis RJ, Wu S, Li Y, Mao H, Chen PR, Wang D, Chen GZ, Hurwitz SJ, Lonial S, Arellano ML, Khoury HJ, Khuri FR, Lee BH, Lei Q, Brat DJ, Ye K, Boggon TJ, He C, Kang S, Fan J, Chen J. 6-Phosphogluconate dehydrogenase links oxidative PPP, lipogenesis and tumour growth by inhibiting LKB1-AMPK signalling. Nat Cell Biol. 2015 Nov;17(11):1484-96. doi: 10.1038/ncb325Epub 2015 Oct 19. Review. PubMed PMID: 26479318; PubMed Central PMCID: PMC4628560.

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