Product Data Sheet

Product Name: TNKS-IN-1
Cat. No.: GC79063

Chemical Properties

Cas. No.	59455-93-5		
Formula	$C_{18}H_{18}N_2O$	M.Wt	278.36
Solubility	DMSO: 10 mg/mL (35.92 mM; Need ultrasonic)	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

TNKS-IN-1 is a selective and potent tankyrase (TNKS1 / TNKS2) inhibitor with IC_{50} values of 7.9 nM and 8.7 nM. TNKS-IN-1 induces axin2 accumulation with an EC 50 of 1500 nM. TNKS-IN-1 can antagonize the Wnt signal transduction pathway by stabilizing axin proteins and promoting β-catenin degradation. TNKS-IN-1 can be used for the research of colorectal cancer [1].

In Vitro, TNKS-IN-1 (Compound 3a) (1 h) potently inhibits purified human TNKS1 and TNKS2 with

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IC_{50} values of 7.9 nM and 8.7 nM, respectively, and exhibits >10000 nM for PARP1 [1]. TNKS-IN-1 (24 h) induces axin2 accumulation in DLD1 cells with an EC50 of 1500 nM, confirming cellular tankyrase inhibition activity[1].

References:

[1]. Buchstaller HP, et al. Discovery and Optimization of 2-Arylquinazolin-4-ones into a Potent and Selective Tankyrase Inhibitor Modulating Wnt Pathway Activity. J Med Chem. 2019;62(17):7897-7909.

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

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