# Data Sheet (Cat.No.T6187)



## TDZD-8

Chemical Propert	ties	
CAS No. :	327036-89-5	
Formula:	C10H10N2O2S	
Molecular Weight:	222.26	
Appearance:	no data available	$ \sum_{s=N} F$
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year	CH <sub>3</sub>

## **Biological Description**

Description	TDZD-8 (NP 01139) is an inhibitor of GSK-3β, with an IC50 of 2 μM; minimal inhibitory effect observed on CDK1, casein kinase II, PKA and PKC.
Targets(IC50)	GSK-3
In vitro	TDZD-8 acts as a noncompetitive inhibitor of ATP or GS-1 binding. TDZD-8 shows no inhibition of PKA, PKC, Cdk-1/cyclin B or CK-II in kinase assays. [1] TDZD-8 specifically induces cell death of primary leukemia specimens. TDZD-8 ablates leukemia progenitor and stem cells. TDZD-8 treatment induces oxidative stress. TDZD-8 induces cell death with extremely rapid cell death kinetics showing loss of membrane integrity. TDZD-8 inhibits PKC and FLT3 in primary AML specimens. [2]

# Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), br/>DMSO: 44.5 mg/mL (200.21	
	mM), Ethanol: 44.5 mg/mL (200.21 mM), (< 1 mg/ml refers to the product	
	slightly soluble or insoluble)	

#### Preparing Stock Solutions

	1mg	5mg	10mg	
1 mM	4.4992 mL	22.4962 mL	44.9924 mL	
5 mM	0.8998 mL	4.4992 mL	8.9985 mL	
10 mM	0.4499 mL	2.2496 mL	4.4992 mL	
50 mM	0.090 mL	0.4499 mL	0.8998 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.

### Reference

Martinez A, et al. J Med Chem, 2002, 45(6), 1292-1299. Guzman ML, et al. Blood, 2007, 110(13), 4436-4444.

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