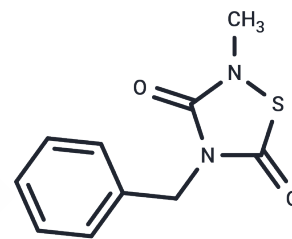


TDZD-8

Chemical Properties

CAS No. :	327036-89-5
Formula:	C ₁₀ H ₁₀ N ₂ O ₂ S
Molecular Weight:	222.26
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	TDZD-8 (NP 01139) is an inhibitor of GSK-3 β , with an IC ₅₀ of 2 μ M; minimal inhibitory effect observed on CDK1, casein kinase II, PKA and PKC.
Targets(IC ₅₀)	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	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 70 mg/mL (314.95 mM), Sonication is recommended. Ethanol: 44.5 mg/mL (200.22 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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