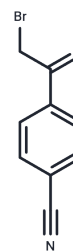


## GSK-3 Inhibitor 5

## Chemical Properties

CAS No. :	20099-89-2
Formula:	C <sub>9</sub> H <sub>6</sub> BrNO
Molecular Weight:	224.05
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	GSK-3 Inhibitor 5 (4-Cyanophenacyl bromide) is a ketone derivative that is used as an intermediate in pharmaceuticals and organic synthesis, and inhibits glycogen synthase kinase 3 (GSK-3).
Targets(IC50)	GSK-3

## Solubility Information

Solubility	DMSO: 55 mg/mL (245.48 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.93 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4633 mL	22.3164 mL	44.6329 mL
5 mM	0.8927 mL	4.4633 mL	8.9266 mL
10 mM	0.4463 mL	2.2316 mL	4.4633 mL
50 mM	0.0893 mL	0.4463 mL	0.8927 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

Bera P, et al. Synthesis, structure elucidation and dft study of a new thiazole-pyridine anchored nnn donor and it's cobalt (II) complex: In-vitro antitumor activity against U937 cancer cells, dna binding property and molecular docking study. Journal of Molecular Structure.2021;1224: 129015.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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