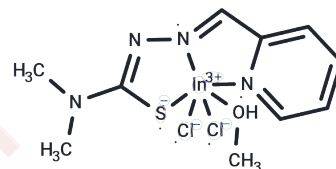


Indium (III) thiosemicarbazone 5b

Chemical Properties

CAS No. :	2345755-20-4
Formula:	C ₁₀ H ₁₅ Cl ₂ InN ₄ O ₅
Molecular Weight:	425.04
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	Indium (III) thiosemicarbazone 5b is an anticancer compound demonstrating cytotoxicity against various cancer cell lines including A549, MCF-7 breast, cisplatin-resistant MCF-7/DDP breast, and H1 7702 liver cancer cells, with IC ₅₀ values of 2.41, 1.97, 2.11, and 8.95 μ M, respectively. It effectively lowers PI3K, Akt, mTOR, P-gp, and GSH levels in MCF-7/DDP cells. In vivo studies show that at a dosage of 2.5 μ mol/kg, indium (III) thiosemicarbazone 5b significantly reduces tumor weight and volume in MCF-7/DDP mouse xenograft models. Furthermore, liposomes formulated with this compound promote apoptosis and pro-death autophagy in MCF-7/DDP cells, alongside notable reductions in tumor volume and weight, showcasing its potential as a therapeutic agent in cancer treatment.
Targets(IC ₅₀)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3527 mL	11.7636 mL	23.5272 mL
5 mM	0.4705 mL	2.3527 mL	4.7054 mL
10 mM	0.2353 mL	1.1764 mL	2.3527 mL
50 mM	0.0471 mL	0.2353 mL	0.4705 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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