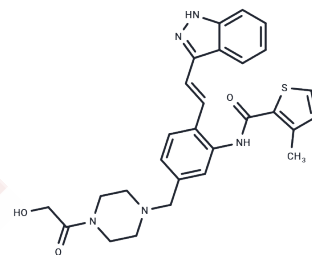


KW-2450 free base

Chemical Properties

CAS No. :	904899-25-8
Formula:	C ₂₈ H ₂₉ N ₅ O ₃ S
Molecular Weight:	515.63
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	KW-2450 free base is an orally bioavailable inhibitor of insulin-like growth factor 1 receptor (IGF-1R) and insulin receptor (IR) tyrosine kinases with potential antineoplastic activity. IGF-1R/IR inhibitor KW-2450 free base selectively binds to and inhibits the activities of IGF-1R and IR, which may result in the inhibition of tumor cell proliferation and the induction of tumor cell apoptosis. IGF-R1 and IR tyrosine kinases, overexpressed in a variety of human cancers, play significant roles in the stimulation of cellular proliferation, oncogenic transformation, and suppression of apoptosis.
Targets(IC50)	Apoptosis,Aurora Kinase,IGF-1R

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9394 mL	9.6969 mL	19.3938 mL
5 mM	0.3879 mL	1.9394 mL	3.8788 mL
10 mM	0.1939 mL	0.9697 mL	1.9394 mL
50 mM	0.0388 mL	0.1939 mL	0.3879 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

Kai K,et al. Antitumor Activity of KW-2450 against Triple-Negative Breast Cancer by Inhibiting Aurora A and B Kinases. Mol Cancer Ther. 2015 Dec;14(12):2687-99.

Umehara H,et al. Preclinical and phase I clinical studies of KW-2450, a dual IGF-1R/IR tyrosine kinase inhibitor, in combination with lapatinib and letrozole. Ther Adv Med Oncol. 2018 Jul 30;10:1758835918786858.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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