

Antitumor agent-145

Chemical Properties

CAS No. :	2983120-65-4
Formula:	C ₄₄ H ₃₄ IrN ₅ O ₅
Molecular Weight:	873.06
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	Compound Ir5 (Antitumor agent-145) serves as a tumor inhibitor characterized by significant fluorescence and mitochondrial targeting. It promotes anti-cancer activity by inducing necroptosis and stimulating the necroptosis-related immune response [1].
Targets(IC50)	Necroptosis
In vitro	Antitumor agent-145 (Compound Ir5) has an IC 50 value of 0.49 μ M against BEL-7402/DDP cells over 48 hours with a resistance factor (RF) of 1.04, and it exhibits no significant cytotoxicity [1].
In vivo	Antitumor agent-145 (Compound Ir5), administered intravenously at doses of 1.5 or 3.0 mg/kg every other day for 21 days, effectively reduces tumor volume in BALB/c mice without causing significant liver or kidney dysfunction [1]. In the BEL-7402/DDP tumor xenograft model, Ir5 significantly inhibits the growth and metastasis of CDDP-resistant tumors, displaying an inhibition rate of tumor growth (IRT) of 40.0% at 1.5 mg/kg and 58.1% at 3 mg/kg, compared to 10.1% in the CDDP group, without inducing notable tissue damage [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1454 mL	5.727 mL	11.454 mL
5 mM	0.2291 mL	1.1454 mL	2.2908 mL
10 mM	0.1145 mL	0.5727 mL	1.1454 mL
50 mM	0.0229 mL	0.1145 mL	0.2291 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

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