

IR-251

Chemical Properties

CAS No. :

Formula: C₅₁H₇₀BrClN₄O₂

Molecular Weight: 886.48

Keep away from direct sunlight

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	IR-251 is a mitochondrion-targeting near-infrared (NIR) fluorescent probe that selectively accumulates in tumor cell mitochondria through organic anion transporting polypeptides (OATPs), leading to mitochondrial dysfunction. By impeding peroxisome proliferator-activated receptor gamma (PPAR γ), IR-251 promotes reactive oxygen species (ROS) overproduction, consequently inhibiting the β -catenin signaling pathway as well as associated cell cycle and metastasis proteins. This mechanism contributes to the compound's ability to suppress tumor growth and metastasis [1].
Targets(IC50)	Others, Reactive Oxygen Species, Mitochondrial Metabolism, PPAR, Wnt/beta-catenin

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1281 mL	5.6403 mL	11.2806 mL
5 mM	0.2256 mL	1.1281 mL	2.2561 mL
10 mM	0.1128 mL	0.564 mL	1.1281 mL
50 mM	0.0226 mL	0.1128 mL	0.2256 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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