

HS-131

Chemical Properties

CAS No. : 2084850-40-6

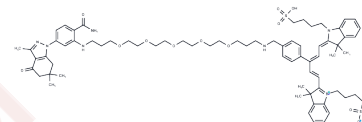
Formula: C71H95N7O13S2

Molecular Weight: 1318.7

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	HS-131, a near-infrared dye-conjugated Hsp90 inhibitor, effectively identifies oncogene-driven breast cancers across various molecular subtypes.
Targets(IC50)	Others,HSP
In vitro	Immunofluorescence[1] was conducted on a tumor cell line using a concentration of 10 μ M, with an incubation time of 30 minutes. The outcome was that various tissues and organs, such as the eyes, brain, heart, lung, liver, spleen, kidney, gut, urinary bladder, and skin, were effectively imaged ex vivo utilizing the IVIS imager machine. This imaging tool is designed to detect infrared (IR) wavelengths at 640 nm.
In vivo	HS131 (10 nmol/mouse) effectively labeled human breast cancer xenografts of various molecular subtypes in SCID-beige mice, including luminal types (MCF-7, T-47D), HER2+ subtypes (BT474M1, KPL-4), and triple negative subtypes (MDA-MB-231, MDA-MB-468), chosen for their tumorigenic potential. Injected intravenously at a dosage of 10 nmol/mouse, HS131 demonstrated superior near-infrared (nIR) signal strength in all cancer subtypes when compared to HS152, with signal retention observable up to 24 hours post-injection.

A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7583 mL	3.7916 mL	7.5832 mL
5 mM	0.1517 mL	0.7583 mL	1.5166 mL
10 mM	0.0758 mL	0.3792 mL	0.7583 mL
50 mM	0.0152 mL	0.0758 mL	0.1517 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

Takuya Osada, et al. In Vivo Detection of HSP90 Identifies Breast Cancers with Aggressive Behavior. Clin Cancer Res. 2017 Dec 15;23(24):7531-7542.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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