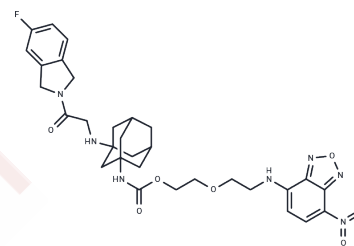


DPP-8/9 probe-1

Chemical Properties

CAS No. :	3020859-80-4
Formula:	C ₃₁ H ₃₆ N ₇ O ₇
Molecular Weight:	637.66
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	DPP-8/9 probe-1 (compound 20) is a fluorescent probe designed to specifically target and label Dipeptidyl Peptidase DPP8/9, allowing for its visualization through fluorescence microscopy in vitro when active. This compound incorporates a nitrobenzoxadiazole (NBD) tag, demonstrating a high affinity and selectivity for DPP8/9, with significant preference over other S9 family enzymes, evidenced by IC ₅₀ values of 210 nM and 15 nM, respectively. [9] [1]
Targets(IC ₅₀)	Others,Proteasome
In vitro	DPP-8/9 probe-1 (compound 20) (10 μM; 30 min) effectively stains and visualizes DPP-8/9 in THP-1 monocyte cells [1]. Using immunofluorescence [1], the experiment indicates that lower concentrations (0.5 μM, 1 μM, and 2 μM) are insufficient for adequate in-cell staining. Optimal results are achieved at a concentration of 10 μM, where visualization is markedly improved.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5682 mL	7.8412 mL	15.6823 mL
5 mM	0.3136 mL	1.5682 mL	3.1365 mL
10 mM	0.1568 mL	0.7841 mL	1.5682 mL
50 mM	0.0314 mL	0.1568 mL	0.3136 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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