

CAY10730

Chemical Properties

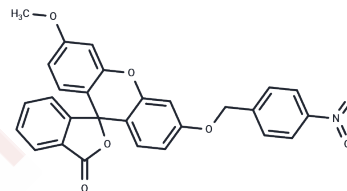
CAS No. : 2206677-06-5

Formula: C₂₈H₁₉N₃O₇

Molecular Weight: 481.46

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	CAY10730 is a turn-on fluorescent probe for the detection of nitroreductase activity, a marker of hypoxia. In the presence of nitroreductase, CAY10730 is transformed into a highly fluorescent molecule that displays excitation/emission maxima of 454/520 nm, respectively. It is selective for nitroreductase over a variety of bioanalytes, including glutathione, ascorbic acid, and reactive oxygen species such as H ₂ O ₂ . CAY10730 (1 μM) has been used to detect hypoxia in A549 human lung carcinoma cells.
Targets(IC50)	Others

Solubility Information

Solubility	Ethanol: 1 mg/mL (2.08 mM),Sonication is recommended. DMSO: 20 mg/mL (41.54 mM),Sonication is recommended. DMF: 20 mg/mL (41.54 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.077 mL	10.3851 mL	20.7702 mL
5 mM	0.4154 mL	2.077 mL	4.154 mL
10 mM	0.2077 mL	1.0385 mL	2.077 mL
50 mM	0.0415 mL	0.2077 mL	0.4154 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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