

Europium W1024 ITC

Chemical Properties

CAS No. : 1204652-02-7

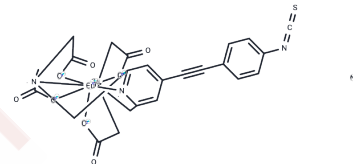
Formula: C₂₄H₁₈EuN₄O₈S.Na

Molecular Weight: 697.40

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	Europium W1024 isothiocyanate (ITC) is a lanthanide-based fluorophore characterized by its long emission lifetime and significant Stokes shift, featuring excitation and emission maxima at 340 and 613 nm, respectively. This compound includes a reactive isothiocyanate handle that engages with primary amino groups in alkaline conditions. It maintains stability under high temperatures, in the face of elevated EDTA concentrations, or at low pH levels, though it falters when exposed to manganese. Commonly, Europium W1024 ITC serves as a donor fluorophore in time-resolved fluorescence resonance energy transfer (TR-FRET) applications, offering the advantage of a prolonged measurement window for observing acceptor fluorescence and minimizing autofluorescence interference through its extended emission lifetime.
Targets(IC50)	Others

Solubility Information

Solubility	H ₂ O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4339 mL	7.1695 mL	14.339 mL
5 mM	0.2868 mL	1.4339 mL	2.8678 mL
10 mM	0.1434 mL	0.7169 mL	1.4339 mL
50 mM	0.0287 mL	0.1434 mL	0.2868 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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