

## NIR-797-isothiocyanate

## Chemical Properties

CAS No. :	152111-91-6
Formula:	C <sub>45</sub> H <sub>50</sub> N <sub>3</sub> NaO <sub>6</sub> S <sub>4</sub>
Molecular Weight:	880.15
Storage:	Keep away from moisture, Keep away from direct sunlight, Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	NIR-797-isothiocyanate is a near-infrared (NIR) fluorescent molecule composed of an NIR-797 fluorescent core and terminal isothiocyanate (-N=C=S) functional groups, designed for the covalent fluorescent labeling of biomolecules. NIR-797-isothiocyanate combines excellent fluorescence imaging performance with potential for photoacoustic imaging. It offers deep tissue penetration and effectively suppresses autofluorescence background in biological tissues. As a versatile dye, it can be used to observe and analyze cellular structures, track biomolecules, assess cellular function, distinguish cell types, detect biomolecules, study tissue pathology, and monitor microorganisms.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 28 mg/mL (31.81 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	1.1362 mL	5.6808 mL	11.3617 mL
5 mM	0.2272 mL	1.1362 mL	2.2723 mL
10 mM	0.1136 mL	0.5681 mL	1.1362 mL
50 mM	0.0227 mL	0.1136 mL	0.2272 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

Sultana M, et al. A review on experimental chemically modified activated carbon to enhance dye and heavy metals adsorption[J]. Cleaner engineering and technology, 2022, 6: 100382.

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