

Dibenzocyclooctyne-Cy5.5

Chemical Properties

CAS No. : 2643308-61-4

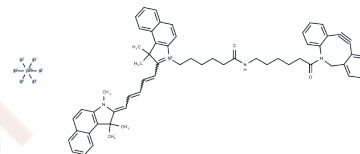
Formula: C₆₁H₆₃F₆N₄O₂P

Molecular Weight: 1029.14

Keep away from direct sunlight

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Dibenzocyclooctyne-Cy5.5 (DBCO-Cy5.5) is a fluorophore-based near-infrared (NIR) fluorescent dye frequently employed for the fluorescent labelling of proteins and nucleic acids. Its DBCO group is capable of undergoing click chemistry reactions.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 30 mg/mL (29.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1.5 mg/mL (1.46 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9717 mL	4.8584 mL	9.7169 mL
5 mM	0.1943 mL	0.9717 mL	1.9434 mL
10 mM	0.0972 mL	0.4858 mL	0.9717 mL
50 mM	0.0194 mL	0.0972 mL	0.1943 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

Yong Geun Lim, et al. Calcium-binding near-infrared fluorescent nanoprobe for bone tissue imaging. Journal of Industrial and Engineering Chemistry. Volume 89, 25 September 2020, Pages 442-447

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481