

NIR-BG2

## Chemical Properties

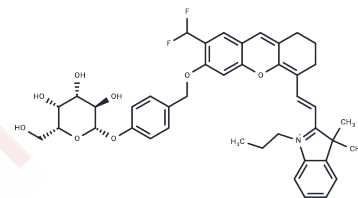
CAS No. : 3036456-18-2

Formula: C42H46F2NO8

Molecular Weight: 730.81

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	NIR-BG2 is a near-infrared fluorescent probe that targets senescence-associated $\beta$ -galactosidase (SA- $\beta$ -Gal). Upon activation by SA- $\beta$ -Gal, NIR-BG2 undergoes hydrolysis, releasing an electrophilic methylquinone that covalently binds to surrounding proteins for in situ labeling, enhancing the fluorescence signal 16-fold at 709 nm. NIR-BG2 holds potential for in vivo imaging studies of cellular senescence.
Targets(IC50)	Others, glycosidase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3683 mL	6.8417 mL	13.6834 mL
5 mM	0.2737 mL	1.3683 mL	2.7367 mL
10 mM	0.1368 mL	0.6842 mL	1.3683 mL
50 mM	0.0274 mL	0.1368 mL	0.2737 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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