

DFHBI-BI

Chemical Properties

CAS No. :	2561482-42-4
Formula:	C19H14F2N4O2
Molecular Weight:	368.34
Storage:	Keep away from direct sunlight Store at -20°C <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	DFHBI-BI is an analog of the green fluorescent protein chromophore. It can bind to Broccoli (a fluorescent RNA aptamer) and is activated by this interaction, exhibiting higher binding affinity. In mammalian cells, DFHBI-BI prevents thermal denaturation of Broccoli at 37°C, thereby increasing the formation of Broccoli-BI complexes with fluorescent properties. Its fluorescence wavelength is 559/635 nm.
Targets(IC50)	Others
In vitro	DFHBI-BI (10 µM) dye results in low fluorescence intensity after a 2-hour staining of cells. However, when DFHBI-BI is applied to HEK293T cells expressing Broccoli circular RNA, an increase in fluorescence intensity is observed.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7149 mL	13.5744 mL	27.1488 mL
5 mM	0.543 mL	2.7149 mL	5.4298 mL
10 mM	0.2715 mL	1.3574 mL	2.7149 mL
50 mM	0.0543 mL	0.2715 mL	0.543 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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