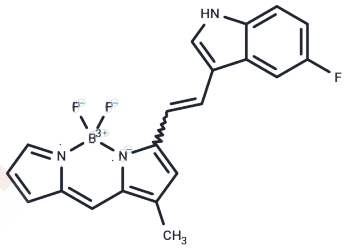
Data Sheet (Cat.No.T85994)

TargetMol

Caffeine orange

Chemical Properties



CAS No. : 1632296-13-9

Formula: C20H15BF3N3

Molecular Weight: 365.16

Appearance:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Compound 1, known as Caffeine Orange, serves as a highly selective aqueous-phase fluorescence turn-on sensor specifically for caffeine. When exposed to 532 nm green excitation light, this compound causes caffeinated coffee to turn orange. Caffeine Orange boasts impressive photophysical properties, including a high extinction coefficient, excellent light stability, and a narrow emission bandwidth, making it valuable in the development of caffeine detection devices [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7385 mL	13.6926 mL	27.3853 mL
5 mM	0.5477 mL	2.7385 mL	5.4771 mL
10 mM	0.2739 mL	1.3693 mL	2.7385 mL
50 mM	0.0548 mL	0.2739 mL	0.5477 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.

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