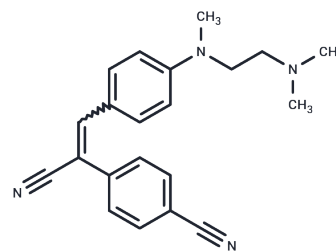


HBC514

Chemical Properties

CAS No. : 2530161-67-0
Formula: C₂₁H₂₂N₄
Molecular Weight: 330.43
Appearance: no data available
Storage: keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	HBC514, a nonfluorescent HBC-analog, emits strong green fluorescence upon forming a tight complex with Pepper RNA aptamer.
Targets(IC50)	Others
In vitro	Pepper is able to enhance HBC's fluorescence more than 3,000-fold and exhibits bright fluorescence when expressed in living cells. HBC514 (2-10 μM) is altered flexibly by simple washing and staining by Pepper based CRISPR imaging in live HeLa cells (expressing sgRNA-Pep1 and dCas9).

Solubility Information

Solubility	DMSO: 12.5 mg/mL (37.83 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	3.0264 mL	15.1318 mL	30.2636 mL
5 mM	0.6053 mL	3.0264 mL	6.0527 mL
10 mM	0.3026 mL	1.5132 mL	3.0264 mL
50 mM	0.0605 mL	0.3026 mL	0.6053 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.

Reference

Chen X, et al. Visualizing RNA dynamics in live cells with bright and stable fluorescent RNAs. Nat Biotechnol. 2019 Nov;37(11):1287-1293.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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