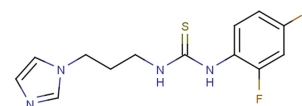


IR415

**Chemical Properties**

CAS No.:	452967-14-5
Formula:	C <sub>13</sub> H <sub>14</sub> F <sub>2</sub> N <sub>4</sub> S
Molecular Weight:	296.34
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	IR415 selectively interacts with HBx (K <sub>d</sub> =2 nM) and blocks HBV-mediated RNAi suppression, reverses the inhibitory effect of HBx protein on the activity of the dicer endoribonuclease. HBV: hepatitis B virus; HBx: hepatitis B virus X protein. IR415 is a potent anti-HBV agent and inhibits HBV replication by blocking the HBx activity.
Targets(IC <sub>50</sub> )	IR415-HBx interaction: (k <sub>d</sub> )2 nM
In vitro	IR415 (50-200 μM) has a dose-dependent inhibitory effect on HBx, with a minimal effective concentration of 50 μM in HepG2/GFP-shRNA line transfected with HBx.Hepatitis B virus X protein (HBx) as a suppressor of host defenses consisting of RNAi-based silencing of viral genes.

**Solubility Information**

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.375 mL	16.873 mL	33.745 mL
5 mM	0.675 mL	3.375 mL	6.749 mL
10 mM	0.337 mL	1.687 mL	3.375 mL
50 mM	0.067 mL	0.337 mL	0.675 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Ghosh S, et al. An RNAi-based high-throughput screening assay to identify small molecule inhibitors of hepatitis B virus replication.J Biol Chem. 2017 Jul 28;292(30):12577-12588.

Inhibitors · Natural Compounds · Compound Libraries

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