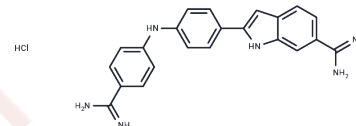


Synucleozid hydrochloride

Chemical Properties

CAS No. :	2741856-68-6
Formula:	C ₂₂ H ₂₁ ClN ₆
Molecular Weight:	404.9
Appearance:	no data available
Storage:	store at low temperature, keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Synucleozid hydrochloride inhibits the translation of the intrinsically disordered protein α -synuclein by targeting its structured mRNA. Synucleozid hydrochloride targets the IRE structure and inhibits SNCA translation in cells, and can be used to study Alzheimer's disease.
Targets(IC50)	DNA/RNA Synthesis
In vitro	METHODS: The affinity of Synucleozid (100 nM-100 μ M) for its putative binding site A in the IRE was measured by using a fluorescent adenine analog to 2-aminopurine (2-AP). RESULTS: Synucleozid reduced 2-AP emission with an EC ₅₀ of $2.7 \pm 0.4 \mu$ M; importantly, restoration of 2-AP emission was observed as a function of the concentration of unlabeled SNCA IRE RNA (RNA-0), providing a competitive K _d value of $1.5 \pm 0.3 \mu$ M. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL (246.97 mM), Sonication is recommended. H ₂ O: 1 mg/mL (2.47 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	2.4697 mL	12.3487 mL	24.6975 mL
5 mM	0.4939 mL	2.4697 mL	4.9395 mL
10 mM	0.247 mL	1.2349 mL	2.4697 mL
50 mM	0.0494 mL	0.247 mL	0.4939 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

Zhang P, et al. Translation of the intrinsically disordered protein α -synuclein is inhibited by a small molecule targeting its structured mRNA. Proc Natl Acad Sci U S A. 2020 Jan 21;117(3):1457-1467.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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