

ERD03

## Chemical Properties

CAS No. : 1377897-01-2

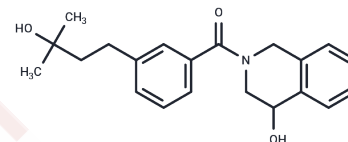
Formula: C<sub>21</sub>H<sub>25</sub>NO<sub>3</sub>

Molecular Weight: 339.43

Store at low temperature

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	ERD03 is a selective compound targeting EXOSC3, disrupting EXOSC3-RNA interactions in a concentration-dependent manner, useful in brain neurodegenerative disease research.
Targets(IC50)	Others
In vitro	<p>Methods: ERD03 (50 μM) was incubated with EXOSC3 and several concentrations of long G-rich RNA. The effect of ERD03 on the RNA/EXOSC3 interaction was tested using MST to measure the inhibitory effect of ERD03.</p> <p>Results: ERD03 reduced the binding of EXOSC3 to long G-rich RNA at several RNA concentrations; at 3.1 μM RNA, ERD03 inhibited the binding by 54%, in a concentration-dependent manner and similar inhibition was observed with long G-rich RNA. [1]</p>

## Solubility Information

Solubility	DMSO: 80 mg/mL (235.69 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	2.9461 mL	14.7306 mL	29.4612 mL
5 mM	0.5892 mL	2.9461 mL	5.8922 mL
10 mM	0.2946 mL	1.4731 mL	2.9461 mL
50 mM	0.0589 mL	0.2946 mL	0.5892 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.

Reference

François-Moutal L, et al. A Chemical Biology Approach to Model Pontocerebellar Hypoplasia Type 1B (PCH1B). ACS Chem Biol. 2018 Oct 19;13(10):3000-3010.

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