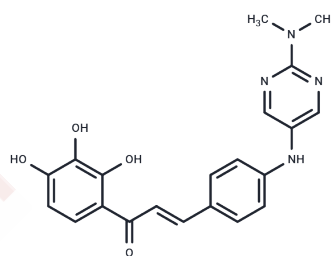


## Chalcones A-N-5

## Chemical Properties

CAS No. :	2756846-09-8
Formula:	C <sub>21</sub> H <sub>20</sub> N <sub>4</sub> O <sub>4</sub>
Molecular Weight:	392.41
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	Chalcones A-N-5, a trihydroxy chalcone derivative, exhibits no cytotoxicity at concentrations below 100 $\mu$ M (with IC <sub>50</sub> > 1 mM) and notably enhances cell proliferation. It is particularly effective in encouraging neuronal cell growth within damaged brain tissue and demonstrates an ability to inhibit ferroptosis triggered by RSL or erastin, while also reducing lipid peroxidation levels associated with A $\beta$ 1-42 protein aggregation. Given these properties, Chalcones A-N-5 represents a promising molecular framework for further development as a lead compound in in vivo studies aimed at researching Alzheimer's Disease (AD) [1].
Targets(IC50)	Others, Ferroptosis

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5484 mL	12.7418 mL	25.4836 mL
5 mM	0.5097 mL	2.5484 mL	5.0967 mL
10 mM	0.2548 mL	1.2742 mL	2.5484 mL
50 mM	0.051 mL	0.2548 mL	0.5097 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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