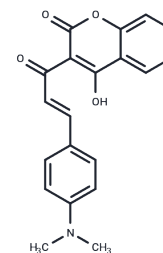


LM-021

Chemical Properties

CAS No. : 1022282-98-9
 Formula: C₂₀H₁₇NO₄
 Molecular Weight: 335.35
 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	LM-021, a coumarin-chalcone derivative, exhibits properties such as anti-aggregation, antioxidant, neuroprotective, and anti-inflammatory effects. It inhibits the production of nitric oxide (NO), IL-1 β , IL-6, and TNF- α , as well as the expression of CD68 and MHCII. Additionally, LM-021 reduces caspase 1 activity, lactate dehydrogenase release, and ROS level elevation. It is used in neurological research.
Targets(IC50)	Reactive Oxygen Species,Caspase,Dehydrogenase,Interleukin
In vitro	LM-021, when used at a concentration of 10 μ M for 8 hours of pretreatment and 20 hours under inflammatory conditions, effectively reduces the expression of NO, IL-1 β , IL-6, NLRP3, GAL3, IBA1, CD68, and MHCII in mouse BV-2 microglial cells, and alleviates morphological changes in these cells. Additionally, LM-021 (10 μ M, 8 h) decreases oxidative stress in SH-SY5Y cells and related polyQ aggregation, while promoting neurite outgrowth.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.982 mL	14.9098 mL	29.8196 mL
5 mM	0.5964 mL	2.982 mL	5.9639 mL
10 mM	0.2982 mL	1.491 mL	2.982 mL
50 mM	0.0596 mL	0.2982 mL	0.5964 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481