

Nrf2 activator-4

Chemical Properties

CAS No. : 2383016-68-8

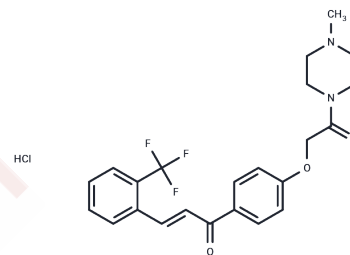
Formula: C₂₃H₂₄ClF₃N₂O₃

Molecular Weight: 468.9

Storage: Keep away from direct sunlight, Keep away from moisture

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	Nrf2 activator-4 is an Nrf2 activator that inhibits the production of reactive oxygen species in microglia for the treatment of fatty liver disease associated with metabolic dysfunction in humans.
Targets(IC50)	Reactive Oxygen Species, Nrf2, ROS

Solubility Information

Solubility	DMSO: 80 mg/mL (170.61 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.04 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1327 mL	10.6633 mL	21.3265 mL
5 mM	0.4265 mL	2.1327 mL	4.2653 mL
10 mM	0.2133 mL	1.0663 mL	2.1327 mL
50 mM	0.0427 mL	0.2133 mL	0.4265 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

Kim HJ, et al. A novel chalcone derivative as Nrf2 activator attenuates learning and memory impairment in a scopolamine-induced mouse model. *Eur J Med Chem.* 2020 Jan 1;185:111777.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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