

NS3694

Chemical Properties

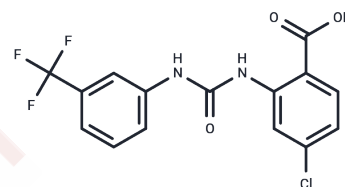
CAS No. : 426834-38-0

Formula: C₁₅H₁₀ClF₃N₂O₃

Molecular Weight: 358.7

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	NS3694 is an inhibitor of apoptosis and inhibits apoptosome formation and caspase activation.
Targets(IC50)	Apoptosis
In vitro	NS3694 (10, 50, and 100 μM) specifically inhibits cytochrome c- and dATP-induced DEVDase activation and processing of caspases and caspase substrates, thus inhibiting the mitochondria-mediated apoptosis. NS3694 inhibits the formation of the apoptosome Apaf-1 by blocking the activation of the initiator caspase-9. In MCF-casp3 cells, NS3694 (10-100 μM) inhibits dose-dependently caspase 9, 3, and 7 processing, DFF45/ICAD, and PARP cleavage, and DEVDase activity and inhibits TNF-induced effector caspase activation and apoptosis[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (696.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (27.88 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (27.88 mM),Suspension. <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	2.7878 mL	13.9392 mL	27.8784 mL
5 mM	0.5576 mL	2.7878 mL	5.5757 mL
10 mM	0.2788 mL	1.3939 mL	2.7878 mL
50 mM	0.0558 mL	0.2788 mL	0.5576 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

Ulrik Lademann, et al. Diarylurea compounds inhibit caspase activation by preventing the formation of the active 700-kilodalton apoptosome complex. *Mol Cell Biol.* 2003 Nov;23(21):7829-37.

Zhu Q, Zhou Y, Wang H, et al. Fucoxanthin triggers ferroptosis in glioblastoma cells by stabilizing the transferrin receptor. *Medical Oncology.* 2023, 40(8): 230.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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