

## Boc-Asp(OMe)-fluoromethyl ketone

## Chemical Properties

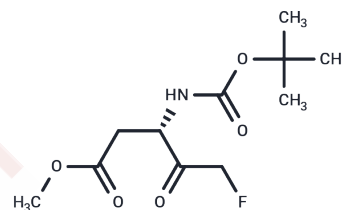
CAS No. : 187389-53-3

Formula: C<sub>11</sub>H<sub>18</sub>FNO<sub>5</sub>

Molecular Weight: 263.26

Storage: Keep away from moisture, Store at low temperature  
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	Boc-Asp(OMe)-fluoromethyl ketone (Boc-Asp(OMe)-FMK) is a broad range caspase inhibitor. Boc-Asp(OMe)-Fluoromethyl Ketone inhibits Fas-mediated phagocytosis and oxidative rupture inhibition, but does not affect the chemotactic activity of IL-8.
Targets(IC50)	Caspase
In vitro	Boc-Asp(OMe)-Fluoromethyl Keton (100 μM; 30 minutes; Polymorphonuclear leukocytes) prevents Fas-induced and spontaneous apoptosis (-CH-11)[1], and at 20 μM for 5 hours in J774.1/JA-4 cells, it significantly increases the release of LDH[2].

## Solubility Information

Solubility	DMSO: 60 mg/mL (227.91 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	3.7985 mL	18.9926 mL	37.9853 mL
5 mM	0.7597 mL	3.7985 mL	7.5971 mL
10 mM	0.3799 mL	1.8993 mL	3.7985 mL
50 mM	0.076 mL	0.3799 mL	0.7597 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

Paunel-Görgülü A, et al. Stimulation of Fas signaling down-regulates activity of neutrophils from major trauma patients with SIRS. Immunobiology. 2011;216(3):334-342.

Koike A, et al. Pan-caspase inhibitors induce necroptosis via ROS-mediated activation of mixed lineage kinase domain-like protein and p38 in classically activated macrophages. Exp Cell Res. 2019;380(2):171-179.

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