Boc-Asp(OMe)-fluoromethyl ketone

Cat. No.: HY-103348

CAS No.: 187389-53-3

Molecular Formula: $C_{11}H_{18}FNO_5$

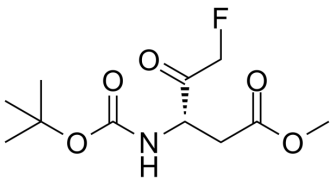
Molecular Weight: 263.26

Target: Caspase

Pathway: Apoptosis

Storage: -20°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (379.85 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Boc-Asp(OME)-Fluoromethyl Ketone is a broad range caspase inhibitor that inhibits Fas-mediated phagocytosis and oxidative rupture inhibition, but does not affect the chemotactic activity of IL-8[1][2].

IC_{50} & Target

Caspase

In Vitro

Boc-Asp(OME)-Fluoromethyl Keton (100 μM; 30 minutes; Polymorphonuclear leukocytes) prevents Fas-induced and spontaneous apoptosis (−CH-11)[1]. Boc-Asp(OME)-Fluoromethyl Keton (20 μM; 5 hours; J774.1/JA-4 cells) significantly increases LDH release[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

[2]. 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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