Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

BOC-D-FMK

Catalog No: tcsc0585

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
634911-80-1

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

Pathway:
Apoptosis

Target:
Caspase

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 125 mg/mL (474.82 mM)

Observed Molecular Weight:
263.26

Product Description

Boc-D-FMK is a cell-permeable, irreversible and broad spectrum **caspase** inhibitor; inhibits apoptosis stimulated by TNF-α with an **IC 50**

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of 39 μM.

IC50 & Target: IC50: 39 μM (TNF-α stimulated apoptosis)[1]

In Vitro: Apoptosis is a pathway of cell death orchestrated by a family of proteases called caspases. Boc-D-fmk inhibits TNFα-stimulated reactive oxygen species (ROS) generation. Boc-D-FMK inhibits apoptosis stimulated by TNF-α with an IC_{50} of 39 μM[1]. BocD-fmk at 50 μM prevents genistein-induced apoptosis of p815 cells. Confocal microscopy shows that the release of mitochondrial apoptotic factors is inhibited by BocD-fmk[2].

In Vivo: Boc-D-FMK-fmk effectively attenuates the hepatocyte apoptosis in bile duct-ligated rats and may improve the survival rates after endotoxin challenge[3]. A single injection of Boc-D-FMK results in longterm protection of MNs against root avulsion-induced death for more than 8 weeks and the Boc-D-FMK-treated MNs are able to regenerate their axons into an implanted PN graft and reinnervate the target muscle[4].