

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**

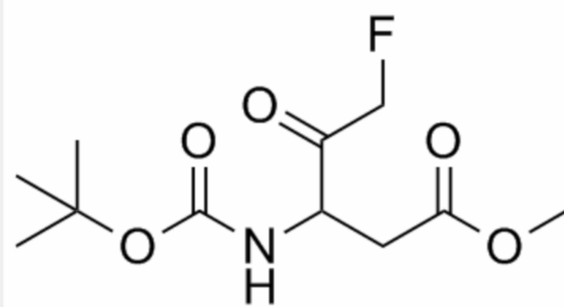
50

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 TNF α -stimulated reactive oxygen species (ROS) generation. Boc-D-FMK inhibits apoptosis stimulated by TNF- α with an IC₅₀ 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].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!