

# 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 :  $\geq 125$  mg/mL (474.82 mM)

**Observed Molecular Weight:**

263.26

## Product Description

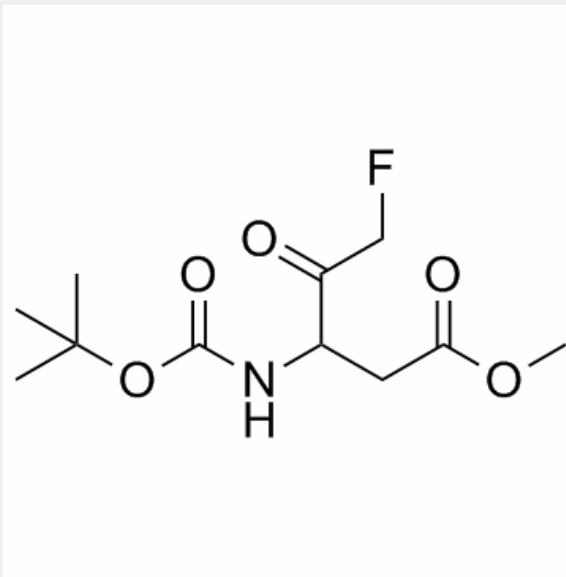
Boc-D-FMK is a cell-permeable, irreversible and broad spectrum **caspase** inhibitor; inhibits apoptosis stimulated by TNF- $\alpha$  with an **IC**  
**50**

of 39  $\mu$ M.

IC50 & Target: IC50: 39  $\mu$ M (TNF- $\alpha$  stimulated apoptosis)<sup>[1]</sup>

***In Vitro:*** Apoptosis is a pathway of cell death orchestrated by a family of proteases called caspases. Boc-D-fmk inhibits TNF $\alpha$ -stimulated reactive oxygen species (ROS) generation. Boc-D-FMK inhibits apoptosis stimulated by TNF- $\alpha$  with an IC<sub>50</sub> of 39  $\mu$ M<sup>[1]</sup>. BocD-fmk at 50  $\mu$ M prevents genistein-induced apoptosis of p815 cells. Confocal microscopy shows that the release of mitochondrial apoptotic factors is inhibited by BocD-fmk<sup>[2]</sup>.

***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<sup>[3]</sup>. 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<sup>[4]</sup>.



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