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

Z-DEVD-FMK

Catalog No: tcsc3454

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Specifications

CAS No:
210344-95-9

Formula:
$C_{30}H_{41}FN_4O_{12}$

Pathway:
Apoptosis

Target:
Caspase

Form:
White to off-white (Solid)

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 33.33 mg/mL (49.85 mM)

Storage Instruction:
Powder -20°C 3 years, 4°C 2 years ; In solvent -80°C 6 months ;-20°C 1 month

Alternative Names:
Caspase-3 Inhibitor

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Observed Molecular Weight:
668.66

Product Description

Z-DEVD-FMK is a specific and irreversible **caspase-3** inhibitor with **IC_{50}** of 18 μM.

IC50 & Target: IC50: 18 μM (caspase-3)[1]

In Vitro: N27 cells are exposed to MPP^+ in the absence or presence of 50 μM Z-DIPD-FMK or 100 μM Z-DEVD-FMK or 50 μM Z-LEHD-FMK and then caspase-9 and caspase-3 enzymatic activities are determined by enzymatic assay at 12 and 24 h following exposure, respectively. Exposure to 300 μM MPP^+ for 24 h in N27 cells results in an approximately 2.5-fold increase in caspase-3 enzyme activity. MPP^+-induced increases in caspase-3 enzyme activity are significantly blocked by 50 μM Z-DIPD-FMK, 100 μM Z-DEVD-FMK, and 50 μM Z-LEHD-FMK[1].

In Vivo: Early Z-DEVD-FMK (160 ng) treatment improves motor and cognitive function after traumatic CNS injury induced by severe controlled cortical impact (CCI) in the mouse[2]. Treatment with Z-DEVD-FMK (160 ng) significantly improves neurological outcome when compared with traumatized animals treated with DMSO vehicle (p[3].