

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

Observed Molecular Weight:

668.66

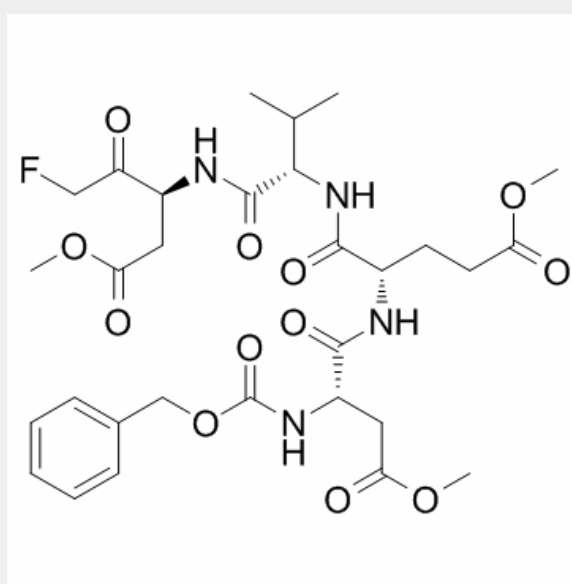
Product Description

Z-DEVD-FMK is a specific and irreversible **caspase-3** inhibitor with **IC₅₀** of 18 μ M.

IC50 & Target: IC50: 18 μ M (caspase-3)^[1]

In Vitro: N27 cells are exposed to MPP⁺ in the absence or presence of 50 μ M Z-DIPD-FMK or 100 μ M Z-DEVD-FMK or 50 μ M 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 μ M 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 μ M Z-DIPD-FMK, 100 μ M Z-DEVD-FMK, and 50 μ M 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]).



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