

Product Data Sheet

Product Name: Z-LEVD-FMK

Cat. No.: GC72985

Chemical Properties

Cas. No. 1135688-25-3

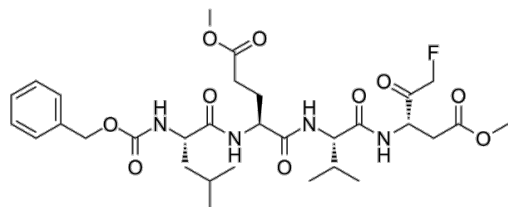
Formula $C_{31}H_{45}FN_4O_{10}$ M.Wt 652.71

Solubility DMSO : 125 mg/mL (191.51 mM; Storage -20°C
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Z-LEVD-FMK is a cell-permeable caspase-4 inhibitor. Z-LEVD-FMK blocks ER stress-induced apoptosis in cancer cells.

Z-LEVD-FMK (2 ng/mL, 30 min) blocks IL-1 β -induced IL-8 production in hRPE cells[1]. Z-LEVD-FMK

Caution: Product has not been fully validated for medical applications. For research use only.

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(2 μ M) inhibits caspase-3 activity in hRPE cells[1]. Z-LEVD-FMK (20 μ M, 96 h) completely blocks E2-induced PARP cleavage in 5C cells[2]. Z-LEVD-FMK (20 μ M, 96 h) reverses E2-inhibited growth and prevents morphologic alterations associated with apoptosis in 5C cells[2].

References:

[1]. Bian ZM, et al. Dual involvement of caspase-4 in inflammatory and ER stress-induced apoptotic responses in human retinal pigment epithelial cells. Invest Ophthalmol Vis Sci. 2009

Dec;50(12):6006-14.

[2]. Ariazi EA, et al. Estrogen induces apoptosis in estrogen deprivation-resistant breast cancer through stress responses as identified by global gene expression across time. Proc Natl Acad Sci U S A. 2011 Nov 22;108(47):18879-86.

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