

Z-YVAD-FMK

Chemical Properties

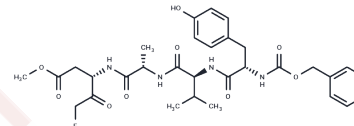
CAS No. : 210344-97-1

Formula: C₃₁H₃₉N₄O₉

Molecular Weight: 630.66

Storage: Keep away from moisture, Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | AA-Z-YVAD-FMK is a Irreversible caspase-1 inhibitor, with anti-inflammatory and anti-tumor activities. |
| Targets(IC50) | Caspase |
| In vitro | Z-YVAD-FMK (100 µM; 24 hours) significantly mitigated butyrate-induced growth inhibition in Caco-2 cells. |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 250 mg/mL (396.41 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (7.93 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.5856 mL | 7.9282 mL | 15.8564 mL |
| 5 mM | 0.3171 mL | 1.5856 mL | 3.1713 mL |
| 10 mM | 0.1586 mL | 0.7928 mL | 1.5856 mL |
| 50 mM | 0.0317 mL | 0.1586 mL | 0.3171 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Li H1, et al. Aluminum hydroxide adjuvants activate caspase-1 and induce IL-1beta and IL-18 release. *J Immunol.* 2007 Apr 15;178(8):5271-6.

Meng Z, Liu H, Zhang J, et al. Sesamin promotes apoptosis and pyroptosis via autophagy to enhance antitumour effects on murine T-cell lymphoma. *Journal of Pharmacological Sciences.* 2021

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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