

SZM-1209

## Chemical Properties

CAS No. :	2919801-86-6
Formula:	C <sub>31</sub> H <sub>29</sub> F <sub>5</sub> N <sub>4</sub> O <sub>5</sub> S <sub>2</sub>
Molecular Weight:	696.71
Storage:	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	SZM-1209 is a potent and specific RIPK1 inhibitor with oral activity, displaying a dissociation constant (K <sub>d</sub> ) of 85 nM. It demonstrates substantial anti-necroptotic efficacy with an EC <sub>50</sub> of 22.4 ± 8.1 nM and possesses therapeutic effects against systemic inflammatory response syndrome (SIRS) and acute lung injury (ALI) [1].
Targets(IC50)	MLK,Necroptosis,RIP kinase
In vitro	SZM-1209 blocks necroptotic cell death in a dose-dependent manner [1]. Specifically, SZM-1209 (0-1 μM, 6 h) inhibits the phosphorylation of the necroptosis signaling pathway involving RIPK1, RIPK3, and MLKL [1].
In vivo	SZM-1209 administered at doses ranging from 25 to 100 mg/kg through oral gavage (灌胃) significantly counteracts inflammation in a systemic inflammatory response syndrome (SIRS) model induced by mTNF-α, reversing mortality in mice [1]. Additionally, when injected intraperitoneally (腹腔注射) at the same dosage, SZM-1209 markedly alleviates acute lung injury (ALI) by reducing pulmonary edema and pathological damage [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4353 mL	7.1766 mL	14.3532 mL
5 mM	0.2871 mL	1.4353 mL	2.8706 mL
10 mM	0.1435 mL	0.7177 mL	1.4353 mL
50 mM	0.0287 mL	0.1435 mL	0.2871 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.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481