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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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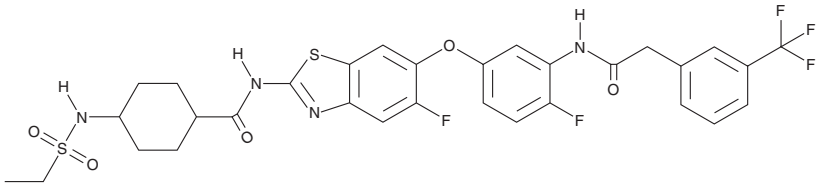
PRODUCT INFORMATION

SZM-1209

Item No. 38494

CAS Registry No.:	2919801-86-6
Formal Name:	N-[5-[[2-[[[4-[(ethylsulfonyl)amino] cyclohexyl]carbonyl]amino]-5-fluoro-6-benzothiazolyl]oxy]-2-fluorophenyl]-3-(trifluoromethyl)-benzeneacetamide
MF:	$C_{31}H_{29}F_5N_4O_5S_2$
FW:	696.7
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SZM-1209 is supplied as a crystalline solid. A stock solution may be made by dissolving the SZM-1209 in the solvent of choice, which should be purged with an inert gas. SZM-1209 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of SZM-1209 in these solvents is approximately 10 and 15 mg/ml, respectively.

Description

SZM-1209 is an inhibitor of receptor-interacting serine/threonine kinase 1 (RIPK1).[1] It selectively binds to RIPK1 over RIPK3 (K_ds = 85 and >10,000 nM, respectively) and inhibits necrosome formation and phosphorylation of RIPK1 induced by TNF-α, SM-164 (Item No. 28632), and Z-VAD-FMK in HT-29 cells (EC_{50} = 22.4 nM). SMZ-1209 (10 and 20 mg/kg) decreases reductions in body temperature and improves survival in a mouse model of systemic inflammatory response syndrome (SIRS) induced by TNF-α and Z-VAD-FMK. It also reduces lung RIPK1 phosphorylation, IL-6 and TNF-α levels, and total protein content, as well as decreases the number of hemorrhagic sites and congestion edema, in a mouse model of acute lung injury (ALI) induced by short-term intratracheal exposure to 4-(N-nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK; Item No. 16414).

Reference

1. Zhang, X., Han, Q., Hou, R., *et al.* Targeting receptor-interacting protein kinase 1 by novel benzothiazole derivatives: Treatment of acute lung injury through the necroptosis pathway. *J. Med. Chem.* **66(7)**, 5261-5278 (2023).

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