

Product Data Sheet

Product Name: SZM-1209

Cat. No.: GC90886

Chemical Properties

Cas. No. 2919801-86-6

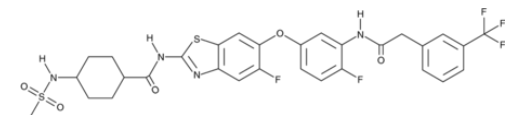
Formula $C_{31}H_{29}F_5N_4O_5S_2$ M.Wt 696.7

Solubility DMF: 15 mg/ml, DMSO: 10 mg/ml Storage Store at -20°C

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

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, 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-nitrosometlamino)-1-(3-pyridyl)-1-butanone.

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

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