

AZ'320

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	AZ'320 is an ATP-competitive necroptosis inhibitor with an EC50 value of 4.9 μ M and a RIPK1 inhibitor with a pKD value of 5.45. It functions by inhibiting RIPK1 phosphorylation, thereby suppressing necroptosis. In systemic inflammatory response syndrome (SIRS) model mice, AZ'320 reduces mortality and restores temperature and weight. This compound can be utilized in cancer and inflammation research.
Targets(IC50)	Necroptosis,RIP kinase
In vitro	AZ'320 inhibits the phosphorylation level of RIPK1 at the Ser166 site in 12.1 cells in a dose-dependent manner when administered at concentrations of 0.1-10 μ M for 4 hours.
In vivo	AZ'320 (5 mg/kg, administered intravenously 15 minutes prior to TNF stimulation) reduces mortality in mice models of systemic inflammatory response syndrome (SIRS) and helps restore body temperature and weight, achieving effects comparable to those of Nec-1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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