

P53/TLR2 modulator-1

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	P53/TLR2 modulator-1 (Compound Z9) is an agent that targets both the P53 pathway and TLR2, exhibiting radioprotective properties. It mitigates apoptosis by inhibiting radiation-induced expression of P53 and Bax. Concurrently, it enhances the TLR2 pathway by upregulating downstream proteins MyD88 and P65, which promotes secretion of cytokines like IL-6, providing radioprotective effects. P53/TLR2 modulator-1 shows significant radioprotective activity in AHH-1 and HUVECs cells, enhances survival rates in C57BL/6j mice exposed to lethal radiation doses, and alleviates radiation-induced damage to their hematopoietic system, intestinal villi, and spleen. It is applicable for research on radiation-related diseases.
Targets(IC50)	Apoptosis,Bcl-2 Family,Interleukin,MyD88,TLR,MDM-2/p53

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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