

CypD-IN-7

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	CypD-IN-7 is a potent inhibitor of Cyclophilin D (CypD/PPIF) that effectively suppresses the PPIase activity of CypD ($K_i = 2.4$ nM) and provides protection against the opening of the mitochondrial permeability transition pore (MPTP). It is applicable for research on pancreatitis.
In vitro	CypD-IN-7 (18f) (39 nM-5 μ M) enhances calcium retention capacity (CRC) in isolated mouse liver mitochondria. At 10 μ M, CypD-IN-7 significantly boosts mitochondrial CRC and demonstrates markedly stronger protection against MPTP opening at 300 nM compared to CsA.
In vivo	CypD-IN-7 (18f) administered at a dose of 50 mg/kg intraperitoneally, immediately after the 3rd and 6th injections of rain frog toxin, and again 2 hours after the 7th injection, significantly reduces serum amylase levels, pancreatic MPO activity, edema/inflammation scores, and overall histological scores in a CER-AP mouse model, while the 20 mg/kg dose shows no significant effect.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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