

CypD-IN-6

## 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-6 is a potent inhibitor of Cyclophilin D (CypD/PPIF) that effectively suppresses the PPIase activity of CypD ( $K_i = 32$ nM) and binds to CypD ( $K_d = 60$ nM). It is useful for researching diseases associated with the mitochondrial permeability transition pore (MPTP), such as ischemia-reperfusion injury and acute pancreatitis.
In vitro	CypD-IN-6 (10 $\mu$ M) enhances the calcium retention capacity (CRC) of isolated mouse liver mitochondria. It does not provide protective effects on mitochondria isolated from CypD gene knockout (Ppif $^{-/-}$ ) mice, which aligns with its mechanism of action being dependent on CypD.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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