

MD6a

Chemical Properties

CAS No. :

Formula: C₂₁H₂₂N₂O₂

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	MD6a is a melatonin derivative with inhibitory activity against poly(ADP-ribose) polymerase (PARP-1). It maintains protein homeostasis and improves mitochondrial function via the TOR/HSF-1 signaling pathway, providing neuroprotective effects.
Targets(IC50)	PARP
In vitro	MD6a (10 μM) inhibits PARP-1 by targeting hsp-4 and hsp-6, leading to the downregulation of let-363/hsf-1 signaling, which consequently reduces α-synuclein (α-syn) aggregation and enhances mitochondrial function in <i>C. elegans</i> .

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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