

(R)-CMPD-39

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

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| Description | (R)-CMPD-39 is the R-enantiomer of CMPD-39. CMPD-39 acts as a selective non-covalent inhibitor of the ubiquitin-specific protease USP30 with an IC50 of approximately 20 nM and demonstrates high selectivity for other DUB family members at concentrations ranging from 1-100 μM. By inhibiting USP30's deubiquitination activity, CMPD-39 enhances the ubiquitination of mitochondrial proteins TOMM20 and SYNJ2BP and promotes the accumulation of phosphorylated ubiquitin. This process accelerates both mitophagy and pexophagy. Additionally, CMPD-39 significantly restores impaired mitochondrial function in dopaminergic neurons derived from Parkinson's disease patients. |
| Targets(IC50) | Mitophagy,DUB |

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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