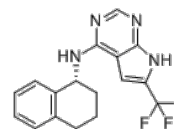


Product Name : MTK458
Cat. No. : PC-49861
CAS No. : 2499962-58-0
Molecular Formula : C₁₇H₁₅F₃N₄
Molecular Weight : 332.33
Target : Mitophagy
Solubility : 10 mM in DMSO



Biological Activity

MTK458 (MTK-458) is a potent, selective and brain penetrant **PINK1 activator**, MTK-458 promotes the first step in mitophagy.

MTK458 selectively activates PINK1 by stimulating dimerization and stabilization of the PINK1/TOM complex.

MTK458 binds to PINK1 and stabilizes an active heterocomplex, thereby increasing mitophagy.

MTK458 reduces the PINK1 substrate pS65-Ubiquitin (pUb) in primary neurons and in vivo.

MTK458 drives clearance of pathologic α -synuclein in vitro and in vivo, decreases pS129 α -synuclein aggregates and normalized both brain and corresponding plasma pUb levels in both cellular and animal models of α -synuclein aggregation (PD-like pathology).

References

Chin RM, et al. *bioRxiv*. 2023 Feb 15:2023.02.14.528378.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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