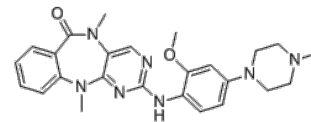


Product Name : XMD8-85
Cat. No. : PC-72142
CAS No. : 1234479-76-5
Molecular Formula : C₂₅H₂₉N₇O₂
Molecular Weight : 459.5
Target : ERK
Solubility : 10 mM in DMSO



Biological Activity

XMD8-85 is a selective **ERK5** inhibitor with IC₅₀ of 87 nM in enzyme assay.

XMD8-85 is selective for ERK5 over tyrosine non-receptor kinase 2 (TNK2, IC₅₀=959 nM), but does inhibit the leucine-rich repeat kinase 2 (LRRK2) mutant LRRK2G2019S (IC₅₀ = 26 nM).

XMD8-85 inhibits EGF-induced ERK5 autophosphorylation in HeLa cells (EC₅₀= 0.19 μM).

XMD8-85 also inhibits Brd4/BET family bromodomains, transcriptional regulators required for Nanog expression.

References

Deng, X, et al. *Eur. J. Med. Chem.* 70, 758-767 (2013).

Di Micco R., et al. *Cell Rep.* 2014;9:234–247.

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

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