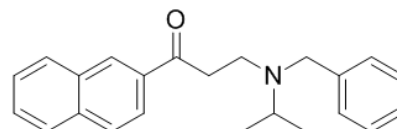


Product Name : ZM39923
Cat. No. : PC-43113
CAS No. : 273727-89-2
Molecular Formula : C₂₃H₂₅NO
Molecular Weight : 331.4507
Target : JAK
Solubility : 10 mM in DMSO



Biological Activity

ZM39923 is a potent, selective **JAK3** inhibitor with pIC₅₀ of 7.1, also potently inhibits human tissue transglutaminase (TGM2, hTG2) with IC₅₀ of 10 nM.

ZM39923 is less potent for EGFR, JAK1 and CDK4 with pIC₅₀ of 5.6, 4.4 and < 5.0, no activity for JAK2.

ZM39923 alters TGM2 activity in polyglutamine-expressing Drosophila model of neurodegeneration and is found to improve survival.

ZM39923 significantly attenuates CCR7-induced Jak3 phosphorylation in metastatic SCCHN cells.

References

Lai TS, et al. *Chem Biol*. 2008 Sep 22;15(9):969-78.

Zhang Z, et al. *Oncol Lett*. 2017 May;13(5):3191-3197.

Luo C, et al. *Drug Discov Today*. 2004 Mar 15;9(6):268-75.

Brown GR, et al. *Bioorg Med Chem Lett*. 2000 Mar 20;10(6):575-9.

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

E-mail: tech@probechem.com