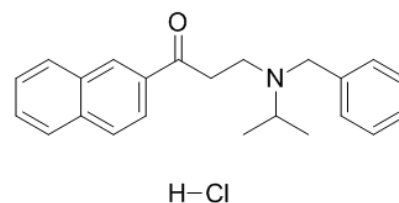


**Product Name** : ZM39923 hydrochloride  
**Cat. No.** : PC-43112  
**CAS No.** : 1021868-92-7  
**Molecular Formula** : C<sub>23</sub>H<sub>26</sub>ClNO  
**Molecular Weight** : 367.9117  
**Target** : JAK  
**Solubility** : DMSO: ≥ 47 mg/mL



## Biological Activity

ZM39923 is a potent, selective JAK3 inhibitor with pIC<sub>50</sub> of 7.1, also potently inhibits human tissue transglutaminase (TGM2) with IC<sub>50</sub> of 10 nM; ZM39923 is less potent for EGFR, JAK1 and CDK4 with pIC<sub>50</sub> of 5.6, 4.4 and < 5.0, no activity for JAK2; alters TGM2 activity in polyglutamine-expressing Drosophila model of neurodegeneration and is found to improve survival; significantly attenuates CCR7-induced Jak3 phosphorylation in metastatic SCCHN cells.

## References

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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