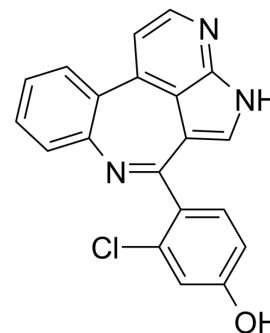


JAK-2/3-IN-1

Cat. No.:	HY-10652
CAS No.:	1036241-36-7
Molecular Formula:	C ₂₀ H ₁₂ ClN ₃ O
Molecular Weight:	345.78
Target:	JAK
Pathway:	Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	JAK-2/3-IN-1 is a potent JAK-2 and JAK-3 inhibitor extracted from patent US8163732B2, compound 46, has K _i s of <250 nM for both isoforms ^[1] .	
IC₅₀ & Target	JAK2 <250 nM (K _i)	JAK3 <250 nM (K _i)
In Vitro	<p>The Janus kinases (JAK) are a family of tyrosine kinases that play a critical role in cytokine signaling. The family consists of JAK-1, JAK-2, JAK-3 and TYK-2, and the down-stream substrates of this family of kinases include the signal transducer and activator of transcription (STAT) proteins. JAK/STAT signaling has been implicated in the mediation of many abnormal immune responses, such as allergies and asthma; autoimmune diseases; as well as in solid and hematologic malignancies^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

[1]. Youssef Bennani, et al. Tricyclic heteroaryl compounds useful as inhibitors of Janus kinase. US8163732B2.

Caution: Product has not been fully validated for medical applications. For research use only.

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