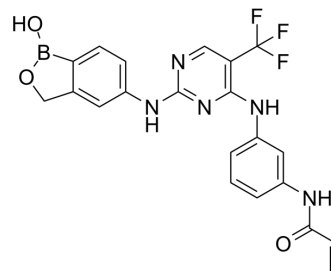


JAK3/BTK-IN-6

Cat. No.:	HY-147754
CAS No.:	2243136-03-8
Molecular Formula:	C ₂₁ H ₁₇ BF ₃ N ₅ O ₃
Molecular Weight:	455.2
Target:	Btk; JAK
Pathway:	Protein Tyrosine Kinase/RTK; Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	JAK3/BTK-IN-6 (compound 14h) is a potent BTK and JAK3 dual inhibitor, with IC ₅₀ values of 0.6 and 0.4 nM, respectively. JAK3/BTK-IN-6 shows good metabolic stability in human liver microsome. JAK3/BTK-IN-6 can be used for hematological and immune diseases research ^[1] .			
IC₅₀ & Target	JAK3 0.4 nM (IC ₅₀)	JAK2 657.9 nM (IC ₅₀)	JAK1 >1000 nM (IC ₅₀)	Tyk2 >1000 nM (IC ₅₀)
In Vitro	JAK3/BTK-IN-6 (compound 14h) shows antiproliferative activities against hematopoietic cells (Raji, Romas, HEL, Jeko-1, and OCI-LY10), with IC ₅₀ values of 1.7, 0.5, 1.1, 0.5, and 1-10, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Ren J, et al. Design and synthesis of boron-containing diphenylpyrimidines as potent BTK and JAK3 dual inhibitors. *Bioorg Med Chem*. 2020 Jan 15;28(2):115236.

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

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