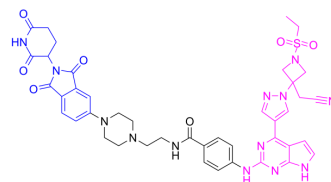


SJ1008030

Cat. No.:	HY-147330
CAS No.:	2863634-96-0
Molecular Formula:	C ₄₂ H ₄₃ N ₁₃ O ₇ S
Molecular Weight:	873.94
Target:	JAK; PROTACs
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt; PROTAC
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SJ1008030 (compound 8) is a JAK2 PROTAC which selectively degrades JAK2. SJ1008030 inhibits MHH-CALL-4 cell growth with an IC ₅₀ of 5.4 nM. SJ1008030 can be used for the research of leukemia ^[1] .																		
IC₅₀ & Target	IC ₅₀ : 32.09 nM (MHH-CALL-4), 33.41 nM (MHH-CALL4-GSPT1-WT), 33.55 nM (MHH-CALL-4-GSPT1-G575N) ^[1]																		
In Vitro	<p>SJ1008030 (compound 8) (72 h) shows activity in CRLF2r cell lines (MHH-CALL-4), with an IC₅₀ of 5.4 nM^[1]. SJ1008030 (0-4.3 μM; 72 h) degrades JAKs, GSPT1, and IKZF1 in a dose-dependent manner in MHH-CALL-4 cells^[1]. SJ1008030 (0-10 μM; 24h) dose-dependently degrades JAK2 and GSPT1 protein in xenograft bone marrow SJBALL021415 cells, indicating the inhibition of JAK-STAT signaling pathway^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>The CRLF2r cell lines MHH-CALL-4, KOPN49, MHH-CALL-2, KOP N75, NALM-6 and 697</td> </tr> <tr> <td>Concentration:</td> <td>0-3 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 hours</td> </tr> <tr> <td>Result:</td> <td>Showed best activity in MHH-CALL-4 cells with an EC₅₀ value of 5.4 nM.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MHH-CALL-4 cells</td> </tr> <tr> <td>Concentration:</td> <td>1 nM, 10 nM, 100 nM, 1 μM and 4.3 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 hours</td> </tr> <tr> <td>Result:</td> <td>Significantly degraded JAK2 in MHH-CALL-4 cells dose-dependently while showed weakly effect to JAK1, JAK3 and GSPT1.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Xenograft SJBALL021415 bone marrow cells</td> </tr> </table>	Cell Line:	The CRLF2r cell lines MHH-CALL-4, KOPN49, MHH-CALL-2, KOP N75, NALM-6 and 697	Concentration:	0-3 μM	Incubation Time:	72 hours	Result:	Showed best activity in MHH-CALL-4 cells with an EC ₅₀ value of 5.4 nM.	Cell Line:	MHH-CALL-4 cells	Concentration:	1 nM, 10 nM, 100 nM, 1 μM and 4.3 μM	Incubation Time:	72 hours	Result:	Significantly degraded JAK2 in MHH-CALL-4 cells dose-dependently while showed weakly effect to JAK1, JAK3 and GSPT1.	Cell Line:	Xenograft SJBALL021415 bone marrow cells
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Cell Line:	Xenograft SJBALL021415 bone marrow cells																		

Concentration:	1, 10, 100, 1000 and 1000 nM
Incubation Time:	24 hours
Result:	Near-completely degraded JAK2 in a dose-dependent way while showed no effect on GSPT1.

REFERENCES

[1]. Chang Y, et al. Degradation of Janus kinases in CRLF2-rearranged acute lymphoblastic leukemia. Blood. 2021 Dec 9;138(23):2313-2326.

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

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