MS-1020

BIOLOGICAL A

Description

IC₅₀ & Target

In Vitro

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-123099 1255516-86-9 C ₂₁ H ₁₈ N ₂ O ₃ 346.38 JAK Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt Please store the product under the recommended conditions in the Certificate of Analysis.	OH O N H OH
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/STAT Signaling; Stem Cell/Wnt		ОН
product under the recommended conditions in the Certificate of		
potent and ATP-competitive JAK3 inhibitor. MS-1020 inhibits JAK3,	0 0	
es cell death. MS-1020 decreases the expression of tyrosine phosphere records of concore barboring observant LAK2 signaling ^[1]	orylated STAT3 levels. MS	-1020 has the

	TV		
ACTIVI	MS-1020 is a potent and 1020 promotes cell deat	ATP-competitive JAK3 inhibitor. MS-1020 inhibits JAK3/STAT signaling and induces apoptosis. MS- h. MS-1020 decreases the expression of tyrosine phosphorylated STAT3 levels. MS-1020 has the h of cancers harboring aberrant JAK3 signaling ^[1] .	
	JAK3		
	MS-1020 (0, 10, 30, 50 μN STAT3 levels ^[1] . MS-1020 (0, 10, 30, 50 μN MS-1020 (0, 10, 30, 50 μN MS-1020 (0, 10, 30, 50 μN	inhibits STAT92E transcriptional activity in cultured Drosophila cells ^[1] . M) decreases the expression of tyrosine phosphorylated STAT3 levels and shows no changes on total M; 16 h) decreases the expression of IL-2 (100 ng/ml)-induced STAT5 phosphorylation in Nb2 cells ^[1] . M; 72 h) promotes cell death in a time- and dose-dependent manner in L540 cells ^[1] . M; 72 h) induces apoptosis in L540 cells ^[1] . htly confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	L540, HDLM-2, MDA-MB-468 cells	
	Concentration:	0, 10, 30, 50 μΜ	
	Incubation Time:		
	Result:	Decreased the expression of tyrosine phosphorylated STAT3 levels in a dose-dependent manner and showed no changes on total STAT3 levels.	

Cell Viability Assay^[1]

Cell Line:	L540, HDLM-2 cells	
Concentration:	0, 10, 30, 50 μΜ	
Incubation Time:	72 h	
Result:	Promoted cell death in a time- and dose-dependent manner only in L540 cells.	

Apoptosis Analysis^[1]

Product Data Sheet

Cell Line:	L540 cells
Concentration:	0, 10, 30, 50 μM
Incubation Time:	72 h
Result:	Induced apoptosis in L540 cells and increased the expression of cleavage of Poly (ADP- ribose) polymerase (PARP) and cleaved caspase-3 and cleaved caspase-3, decreased the expression of Bcl-2, Bcl-xL, Mcl-1, and survivin in a dose-dependent manner.

REFERENCES

[1]. Kim BH, et al. MS-1020 is a novel small molecule that selectively inhibits JAK3 activity. Br J Haematol. 2010 Jan;148(1):132-43.

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

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