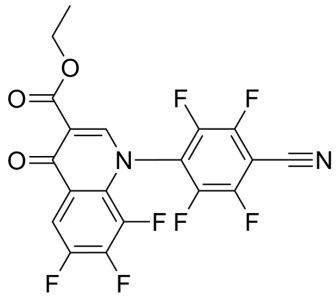
STAT3-IN-5

Cat. No.:	HY-112447
CAS No.:	1041438-68-9
Molecular Formula:	$C_{19}H_7F_7N_2O_3$
Molecular Weight:	444.26
Target:	STAT
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	STAT3-IN-5 is a potent STAT3 inhibitor. STAT3-IN-5 inhibits STAT3-Y705 phosphorylation with an EC_{50} value of 170 nM. STAT3-IN-5 inhibits cytokine induced JAK activation. STAT3-IN-5 induces apoptosis. STAT3-IN-5 can be used in research of cancer[1].
IC_{50} & Target	p-STAT3 170 nM (EC50)

In Vitro

STAT3-IN-5 (compound 8; 0-2 μM; 1 h) inhibits STAT3 phosphorylation in U266 cells[1].

STAT3-IN-5 (0-2 μM; 1 h) inhibits cytokines induced phosphorylation of JAK1, JAK2, and Tyk2 in U266 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	U266 cells
Concentration:	0-2 μM
Incubation Time:	1 hours
Result:	Inhibited cytokine induced phosphorylation of JAK1, JAK2, and Tyk2 (P-JAK1-Y1022/1023, P-JAK2-Y1007/1008, P-Tyk2-Y1054/1055).

Western Blot Analysis[1]

Cell Line:	U266 cells
Concentration:	0-2 μM
Incubation Time:	1 hours
Result:	Inhibited STAT3 phosphorylation in a dose-dependent manner.

REFERENCES

[1]. Xu J, et, al. Inhibition of the signal transducer and activator of transcription-3 (STAT3) signaling pathway by 4-oxo-1-phenyl-1,4-dihydroquinoline-3-carboxylic acid esters. J Med Chem. 2008 Jul 24;51(14):4115-21.

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