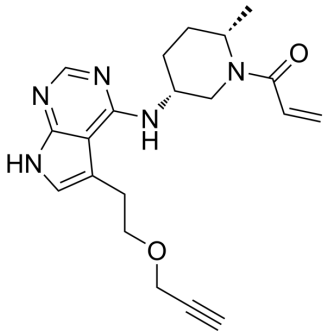
JAK-IN-24

Cat. No.:	HY-153050
CAS No.:	2042629-43-4
Molecular Formula:	$C_{20}H_{25}N_5O_2$
Molecular Weight:	367.44
Target:	JAK
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	JAK-IN-24 is a JAK inhibitor, with IC_{50}s of 0.534 and 24 nM at the presence of 4 μM or 1mM ATP, respectively. JAK-IN-24 also inhibits PBMC IL-15 induced STAT5 phosphorylation with an IC_{50} of 86.171 nM[1]. JAK-IN-24 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.
In Vitro	JAK-IN-24 (Example 129) inhibits JAK with IC_{50} values of 0.534 and 24 nM at the presence of 4 μM or 1mM ATP respectively[1]. JAK-IN-24 shows stability in human whole blood with $t_{1/2}$ of 267.223 min[1]. JAK-IN-24 inhibits PBMC IL-15 induced STAT5 phosphorylation with an IC_{50} of 86.171 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Atli Thorarensen, et al. Pyrrolo[2,3-d]pyrimidinyl, pyrrolo[2,3-b]pyrazinyl, pyrrolo[2,3-b]pyridinyl acrylamides and epoxides thereof. Patent. WO2016178110.

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