

Product Data Sheet

Product Name: JAK-IN-24

Cat. No.: GC71213

Chemical Properties

Cas. No. 2042629-43-4

Formula $C_{20}H_{25}N_5O_2$ M.Wt 367.44

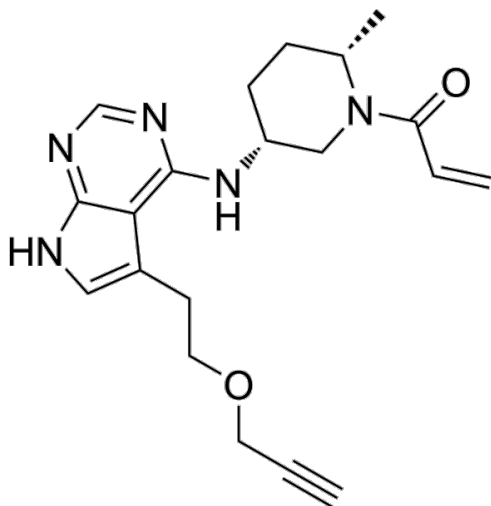
Solubility DMSO : 100 mg/mL (272.15 mM; Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

Storage 4°C, sealed storage, away from moisture and light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

JAK-IN-24 is a JAK inhibitor, with IC₅₀s 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 IC₅₀ of 86.171 nM. 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.

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

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JAK-IN-24 (Example 129) inhibits JAK with IC₅₀ 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 IC₅₀ of 86.171 nM^[1].

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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