

Product Data Sheet

Product Name: Tyk2-IN-5

Cat. No.: GC65387

Chemical Properties

Cas. No. 1797432-62-2

Formula C₂₁H₁₉N₈O₂

M.Wt 434.43

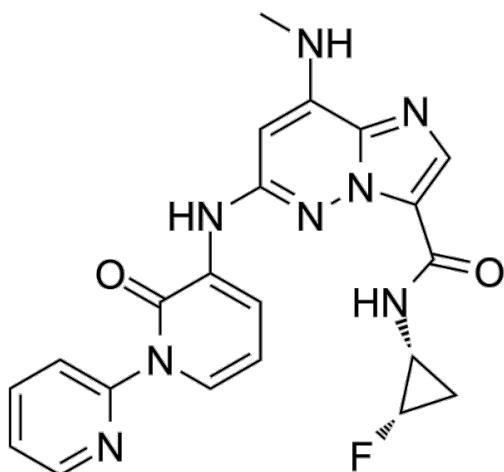
Solubility DMSO : 43.33 mg/mL (99.74 mM;
Need ultrasonic)

Storage Store at -20°C

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



Protocol

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

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Tyk2JH2 IFN α

0.086nM(Ki) 25nM(IC₅₀)

Background

Tyk2-IN-5 (compound 6) is a highly potent, selective and orally active Tyk2 inhibitor and targets the JH2 domain, with a Ki of 0.086 nM for Tyk2 JH2 and an IC₅₀ of 25 nM for IFN α . Highly effective in inhibiting IFN γ production in a rat pharmacodynamics model and fully efficacious in a rat adjuvant arthritis model[1].

[1]. Liu C, et al. Identification of Imidazo[1,2-b]pyridazine Derivatives as Potent, Selective, and Orally Active Tyk2 JH2 Inhibitors. ACS Med Chem Lett. 2019 Feb 21;10(3):383-388.

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