
Product Data Sheet

Product Name: Tyk2-IN-8

Cat. No.: GC37847

Chemical Properties

Cas. No. 2127109-84-4

SMILES N#CC[C@@]1(N2N=CC(C3=NC(C4=CN(C)N=C4)=CN5C3=CC=N5)=C2)C[C@H](C#N)C1Formula C₂₀H₁₇N₉ M.Wt 383.41

Solubility DMSO: 16.67 mg/mL (43.48 mM) 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 **Background**

Ropsacitinib (PF-06826647, Tyk2-IN-8, compound 10) is a selective and orally administered inhibitor of tyrosine kinase 2 (TYK2) with IC₅₀ of 17 nM for binding to TYK2 catalytically active JH1 domain. PF-06826647 (Tyk2-IN-8, compound 10) also inhibits JAK1 and JAK2 with IC₅₀ of 383 nM and 74 nM, respectively. PF-06826647 (Tyk2-IN-8, compound 10) is used in the treatment of psoriasis (PSO).

PF-06826647 is a potent TYK2 inhibitor binding to the JH1 domain. PF-06826647 inhibits ear swelling in the imiquimod-induced skin inflammation model.[2]

[1] Stephen T Wroblewski, et al. J Med Chem. 2019 Oct 24;62(20):8973-8995. [2] Brian S Gerstenberger, et al. J Med Chem. 2020 Nov 25;63(22):13561-13577. [3] Gerstenberger BS, et al. J Med Chem. 2020 Nov 25;63(22):13561-13577.

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

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