
Product Data Sheet

Product Name: Tyk2-IN-3

Cat. No.: GC32052

Chemical Properties

Cas. No. 1779493-12-7

SMILES CN1C=NC2=C1C(N=C(C3=CC=CC([C@@H](C)NC(C4=C(S(=O)(C)=O)C=CC=C4)=O)=C3)S5)=C5N=C2NCFormula C₂₅H₂₄N₆O₃S₂ M.Wt 520.63

Solubility Soluble in DMSO 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**

Tyk2-IN-3 is a Tyk2 pseudokinase inhibitor, with an IC₅₀ of 485 nM.

Tyk2-IN-3 (compound 1) is very potent against the Tyk2 pseudokinase (99% inhibition at 1 μM) but lacks potency against all other kinases in the kinome assay panel except IKK (96% inhibition) and the JAK1 pseudokinase domain (99% inhibition at 1 μM). No evidence of binding to the catalytic domain of Tyk2 or any other JAK family kinase is evident at 1 μM, and subsequent enzymatic assays confirm the lack of activity against purified catalytic domains (IC₅₀>>2 μM). The pseudokinase domains of JAK2 and JAK3 are not part of the kinome screening panel. In the IL-23-stimulated kit225 T cell assay, Tyk2-IN-3 inhibits the stimulated response with an IC₅₀ of 485±143 nM (n=3)[1].

[1]. Tokarski JS, et al. Tyrosine Kinase 2-mediated Signal Transduction in T Lymphocytes Is Blocked by Pharmacological Stabilization of Its Pseudokinase Domain. J Biol Chem. 2015 Apr 24;290(17):11061-74.

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

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