

Product Datasheet

GS-9973

Catalog No. **BP-02487** · CAS **1229208-44-9** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-10**

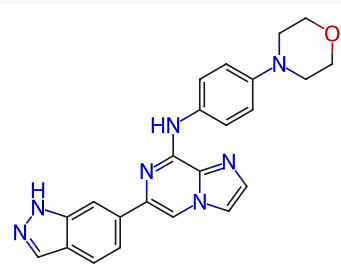
FOR RESEARCH USE ONLY. NOT FOR HUMAN OR VETERINARY USE.

Target Syk	Research area Cancer
----------------------	--------------------------------

Molecular formula **C₂₃H₂₁N₇O**

Molecular weight **411.4591**

STRUCTURE



DESCRIPTION

Entospletinib (GS-9973) is an orally bioavailable, selective Syk inhibitor with an IC₅₀ of 7.7 nM.

BIOLOGICAL ACTIVITY

In Vitro

Entospletinib (GS-9973) shows good bidirectional permeability across Caco-2 cell monolayers in vitro. In cells, Entospletinib (GS-9973) also shows excellent selectivity for Syk, and potently inhibits BCR-mediated activation and proliferation of B-cells as well as immune-complex-stimulated cytokine production in monocytes.

The combination of idelalisib and Entospletinib (GS-9973) synergistically inhibits CLL cell viability and further disrupts chemokine signaling.

In Vivo

Entospletinib (GS-9973) (1 mg/kg, p.o.) shows moderate to high bioavailability in rat and dog. In a rat collagen-induced arthritis model, Entospletinib (GS-9973) (1-10 mg/kg, p.o.) significantly inhibits ankle inflammation. Moreover, Entospletinib (GS-9973) also shows disease-modifying activity in multiple histological measurements, including inhibition of pannus formation, cartilage damage, bone resorption, and peritosteal bone formation with ED₅₀ ranging from 1.2 to 3.9 mg/kg.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1].Currie KS, et al. Discovery of GS-9973, a Selective and Orally Efficacious Inhibitor of Spleen Tyrosine Kinase. J Med Chem. 2014 May 8;57(9):3856-73.

[2].Burke RT, et al. A potential therapeutic strategy for chronic lymphocytic leukemia by combining Idelalisib and GS-9973, a novel spleen tyrosine kinase (Syk) inhibitor. Oncotarget. 2014 Feb 28;5(4):908-15.

Tel: +86 20 31130026 · Fax: +86 20 36822386 · tech@biochemprobe.com · www.biochemprobe.com

BiochemProbe is the catalog brand of Guangzhou Yuyuan Biotech Co., Ltd. · For research use only.

Lot CoA and SDS are separate documents.