

Product Data Sheet

Product Name: JAK1/2 ligand 1

Cat. No.: GC80947

Chemical Properties

Cas. No. 1026028-96-5

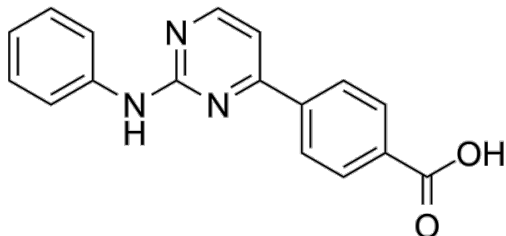
Formula $C_{17}H_{13}N_3O_2$ M.Wt 291.3

Solubility DMSO: 25.75 mg/mL (88.40 mM; Need warming) Storage Store at 4°C, stored under nitrogen

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

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

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JAK1/2 ligand 1 is a ligand for the PROTAC target protein of JAK1/2, which can be used to synthesize PROTAC JAK1/2 degrader-1. JAK1/2 ligand 1 is applicable to the research of colitis [1].

In Vivo, JAK1/2 ligand 1 (compound 8b) (40 mg/kg; p.o.; daily; 7 days) provides mild protective effects against DSS-induced colitis in C57BL/6 mice [1].

In Vitro, JAK1/2 ligand 1 (compound 8b) (1.5 μ M) does not induce JAK1 degradation in LPS-stimulated Raw 264.7 cells, either alone or in combination with Pomalidomide [1]. JAK1/2 ligand 1 (0.469-60 μ M; 24 h) exhibits a favorable cellular safety profile in LPS-stimulated Raw 264.7 cells, showing no significant cytotoxicity within the tested concentration range [1]. JAK1/2 ligand 1 (0.469-60 μ M; 24 h) exhibits only weak inhibitory activity against LPS-induced NO production [1]. AK1/2 ligand 1 (0.94-60 μ M; 24 h) promotes JAK2 degradation in LPS-stimulated RAW 264.7 cells [1]. JAK1/2 ligand 1 (0.05-60 μ M; 24 h) shows weaker inhibitory activity against LPS-induced TNF- α and IL-6 secretion [1]. JAK1/2 ligand 1 (0.029-3.75 μ M; 24 h) suppresses LPS-induced NO, IL-6, and TNF- α production in a dose-dependent manner in Raw 264.7 cells and is non-cytotoxic at concentrations up to 3.75 μ M [1].

References:

[1]. Li G, et al. Development of potent JAK1/2 PROTAC degraders for the treatment of inflammatory bowel diseases. European journal of medicinal chemistry. 2026 Jan 15;302(Pt 3):118374.

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