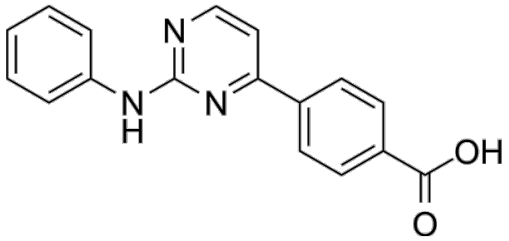
Product Data Sheet

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

Product Data Sheet

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 μM) 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 μM; 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 μM; 24 h) exhibits only weak inhibitory activity against LPS-induced NO production[1]. AK1/2 ligand 1 (0.94-60 μM; 24 h) promotes JAK2 degradation in LPS-stimulated RAW 264.7 cells[1]. JAK1/2 ligand 1 (0.05-60 μM; 24 h) shows weaker inhibitory activity against LPS-induced TNF-α and IL-6 secretion[1]. JAK1/2 ligand 1 (0.029-3.75 μM; 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 μM[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.

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