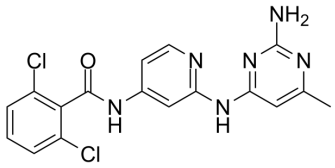
RO495

Cat. No.:	HY-18316
CAS No.:	1258296-60-4
Molecular Formula:	$C_{17}H_{14}Cl_2N_6O$
Molecular Weight:	389.24
Target:	JAK
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (256.91 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5691 mL	12.8455 mL	25.6911 mL
	5 mM	0.5138 mL	2.5691 mL	5.1382 mL
	10 mM	0.2569 mL	1.2846 mL	2.5691 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	RO495 is a potent inhibitor of non-receptor tyrosine-protein kinase 2 (TYK2 kinase)[1].
IC_{50} & Target	TYK2

REFERENCES

[1]. Tobie D. Lee, et al. A High-Throughput Screen of a Library of Therapeutics Identifies Cytotoxic Substrates of P-glycoprotein. Molecular Pharmacology November 2019, 96 (5) 629-640.

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

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