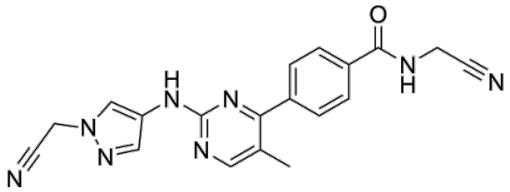
Product Data Sheet

Product Name: JAK-IN-21
Cat. No.: GC73148

Chemical Properties

Cas. No.	2445499-20-5		
Formula	$C_{19}H_{16}N_8O$	M.Wt	372.38
Solubility	DMSO : 125 mg/mL (335.68 mM; Need ultrasonic)	Storage	-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

Caution: Product has not been fully validated for medical applications. For research use only.
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JAK-IN-21 (Example 4) is a selective and potent JAK inhibitor with IC50s of 1.73, 2.04, 109 and 62.9 nM against JAK1, JAK2, J2V617F and TYK2, respectively.

JAK-IN-21 (Example 4) doses not inhibit CYPs and shows good liver microsome stability[1].

JAK-IN-21 (Example 4) shows low bioavailability (F=1.9%)[1].

References:
[1]. Zhaokui WAN, et al. Benzamides of pyrazolyl-amino-pyrimidinyl derivatives, and compositions and methods thereof. Patent WO2020119819.

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