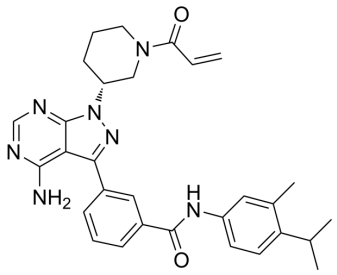
PF-06465469

Cat. No.:	HY-108691
CAS No.:	1407966-77-1
Molecular Formula:	$C_{30}H_{33}N_7O_2$
Molecular Weight:	523.63
Target:	Itk
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 11 mg/mL (21.01 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9097 mL	9.5487 mL	19.0975 mL
	5 mM	0.3819 mL	1.9097 mL	3.8195 mL
	10 mM	0.1910 mL	0.9549 mL	1.9097 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: 1.1 mg/mL (2.10 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.1 mg/mL (2.10 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.1 mg/mL (2.10 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	PF-06465469 is a covalent inhibitor of ITK with an IC_{50} of 2 nM[1].
IC_{50} & Target	IC50: 2 nM (ITK)[1]

REFERENCES

[1]. Mamand S, et al. Comparison of interleukin-2-inducible kinase (ITK) inhibitors and potential for combination therapies for T-cell lymphoma. Sci Rep. 2018 Sep 21;8(1):14216.

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