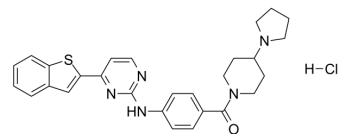


IKK 16 hydrochloride

Cat. No.:	HY-13687A
CAS No.:	1186195-62-9
Molecular Formula:	C ₂₈ H ₃₀ ClN ₅ OS
Molecular Weight:	520.09
Target:	IKK; LRRK2
Pathway:	NF-κB; Autophagy
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (192.27 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration \ Mass	1 mg	5 mg	10 mg
		1 mM	1.9227 mL	9.6137 mL	19.2274 mL
		5 mM	0.3845 mL	1.9227 mL	3.8455 mL
		10 mM	0.1923 mL	0.9614 mL	1.9227 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 (4.81 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.81 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.81 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	IKK 16 hydrochloride is a selective IκB kinase (IKK) inhibitor for IKK2, IKK complex and IKK1 with IC ₅₀ s of 40 nM, 70 nM and 200 nM, respectively ^[1] . IKK16 also inhibits leucine-rich repeat kinase-2 (LRRK2) with an IC ₅₀ of 50 nM ^[2] .			
IC ₅₀ & Target	IKK2 40 nM (IC ₅₀)	IKK1 200 nM (IC ₅₀)	IKK 70 nM (IC ₅₀)	LRRK2 50 nM (IC ₅₀)

CUSTOMER VALIDATION

- J Hepatol. 2021 Aug;75(2):363-376.
- Nat Commun. 2022 Mar 31;13(1):1700.
- J Immunother Cancer. 2020 Sep;8(2):e000517.
- Theranostics. 2020 Feb 18;10(8):3579-3593.
- J Exp Clin Cancer Res. 2021 Aug 27;40(1):273.

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REFERENCES

- [1]. Waelchli R, et al. Design and preparation of 2-benzamido-pyrimidines as inhibitors of IKK. Bioorg Med Chem Lett. 2006 Jan 1;16(1):108-12.
- [2]. Hermanson SB, et al. Screening for novel LRRK2 inhibitors using a high-throughput TR-FRET cellular assay for LRRK2 Ser935 phosphorylation. PLoS One. 2012;7(8):e43580.
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Caution: Product has not been fully validated for medical applications. For research use only.

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