IBT6A hydrochloride

MedChemExpress

®

Cat. No.:	HY-13036B	ŅH
CAS No.:	1553977-42-6	
Molecular Formula:	C ₂₂ H ₂₃ ClN ₆ O	
Molecular Weight:	422.91	N / / / / / / / / / / / / / / / / / / /
Target:	Btk	HCI
Pathway:	Protein Tyrosine Kinase/RTK	
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	°

SOLVENT & SOLUBILITY

		Mass Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.3646 mL	11.8228 mL	23.6457 mL		
		5 mM	0.4729 mL	2.3646 mL	4.7291 mL		
		10 mM	0.2365 mL	1.1823 mL	2.3646 mL		
	Please refer to the sc	lubility information to select the app	propriate solvent.	1			
In Vivo	Solubility: ≥ 2.5 m	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.91 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) 					
		Solubility: ≥ 2.5 mg/mL (5.91 mM); Clear solution					
		 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.91 mM); Clear solution 					

BIOLOGICAL ACTIVITY		
Description	IBT6A hydrochloride is an impurity of Ibrutinib. IBT6A can be used in synthesis of IBT6A Ibrutinib dimer and IBT6A adduct ^[1] . Ibrutinib is a selective, irreversible Btk inhibitor with an IC ₅₀ of 0.5 nM ^[2] .	
In Vitro	IBT6A (Compound 14) can be used in synthesis of Ibrutinib and Ibrutinib-based activity-based probes (ABPs) ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Somana Siva Prasad, et al. A QUALITY BY DESIGN APPROACH FOR DEVELOPMENT OF SIMPLE AND ROBUST REVERSED PHASE STABILITY INDICATING HPLC METHOD FOR ESTIMATION OF IBRUTINIB AND ITS IMPURITIES.

[2]. Honigberg LA, et al. The Bruton tyrosine kinase inhibitor PCI-32765 blocks B-cell activation and is efficacious in models of autoimmune disease and B-cell malignancy. Proc Natl Acad Sci U S A. 2010 Jul 20;107(29):13075-80.

[3]. Liu N, et al. Direct and two-step bioorthogonal probes for Bruton's tyrosine kinase based on ibrutinib: a comparative study. Org Biomol Chem. 2015 May 14;13(18):5147-57.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA