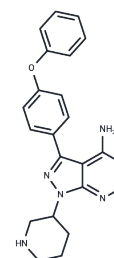


## (Rac)-IBT6A

### Chemical Properties

CAS No. :	1412418-47-3
Formula:	C <sub>22</sub> H <sub>22</sub> N <sub>6</sub> O
Molecular Weight:	386.45
Appearance:	Solid
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



### Biological Description

Description	(Rac)-IBT6A is a racemate of IBT6A, an impurity of Ibrutinib that can be utilized in the synthesis of IBT6A Ibrutinib dimer and IBT6A adduct.
Targets(IC50)	BTK

### Solubility Information

Solubility	DMSO: 45 mg/mL (116.44 mM), Sonication is recommended. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.59 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5877 mL	12.9383 mL	25.8766 mL
5 mM	0.5175 mL	2.5877 mL	5.1753 mL
10 mM	0.2588 mL	1.2938 mL	2.5877 mL
50 mM	0.0518 mL	0.2588 mL	0.5175 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

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.

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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.

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