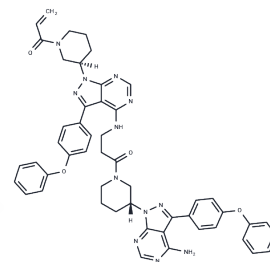


## Ibrutinib dimer

## Chemical Properties

CAS No. :	2031255-23-7
Formula:	C <sub>50</sub> H <sub>48</sub> N <sub>12</sub> O <sub>4</sub>
Molecular Weight:	880.99
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Ibrutinib dimer is an impurity of Ibrutinib. Ibrutinib dimer is a Dimer of Ibrutinib. Ibrutinib is an irreversible Btk inhibitor (IC <sub>50</sub> : 0.5 nM).
Targets(IC <sub>50</sub> )	Others,BTK

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1351 mL	5.6754 mL	11.3509 mL
5 mM	0.227 mL	1.1351 mL	2.2702 mL
10 mM	0.1135 mL	0.5675 mL	1.1351 mL
50 mM	0.0227 mL	0.1135 mL	0.227 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## 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.

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.

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