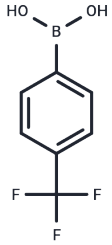
Data Sheet (Cat.No.T21356)

TargetMol

4-(Trifluoromethyl)phenylboronic acid

Chemical Properties



CAS No. : 128796-39-4

Formula: C7H6BF3O2

Molecular Weight: 189.93

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	4-(Trifluoromethyl)benzeneboronic acid is used to N-arylate imidazoles and amines with copper-exchanged fluorapatite, as well as used in microwave-promoted cross-coupling with acid chlorides leading to aryl ketones.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: Insoluble, DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2651 mL	26.3255 mL	52.651 mL
5 mM	1.053 mL	5.2651 mL	10.5302 mL
10 mM	0.5265 mL	2.6325 mL	5.2651 mL
50 mM	0.1053 mL	0.5265 mL	1.053 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

Cao KS, Bian HX, Zheng WH. Mild arylboronic acid catalyzed selective [4 + 3] cycloadditions: access to cyclohepta [b]benzofurans and cyclohepta[b]indoles. Org Biomol Chem. 2015 Jun 21;13(23):6449-52. doi: 10.1039 /c5ob00653h. Epub 2015 May 14. PubMed PMID: 25971529.

Christinat N, Scopelliti R, Severin K. Boron-based rotaxanes by multicomponent self-assembly. Chem Commun (Camb). 2008 Aug 21;(31):3660-2. doi: 10.1039/b805437a. Epub 2008 Jun 11. PubMed PMID: 18665291.

Maki T, Ishihara K, Yamamoto H. 4,5,6,7-Tetrachlorobenzo[d][1,3,2]dioxaborol- 2-ol as an effective catalyst for the amide condensation of sterically demanding carboxylic acids. Org Lett. 2006 Mar 30;8(7):1431-4. PubMed PMID: 16562909.

Westmark PR, Smith BD. Boronic acids facilitate the transport of ribonucleosides through lipid bilayers. J Pharm Sci. 1996 Mar;85(3):266-9. PubMed PMID: 8699326.