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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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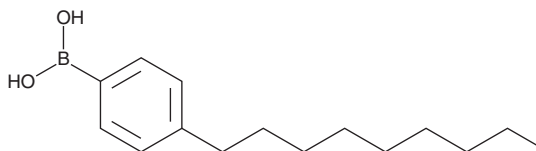
Product Information



4-(n-nonyl) Benzenboronic Acid

Item No. 13140

CAS Registry No.: 256383-45-6
Formal Name: B-(4-nonylphenyl)-boronic acid
MF: C₁₅H₂₅BO₂
FW: 248.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 4-(n-nonyl) benzenboronic acid be stored as supplied at -20°C. It should be stable for at least two years.

4-(n-nonyl) Benzenboronic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the 4-(n-nonyl)benzenboronic acid in an organic solvent purged with an inert gas. 4-(n-Nonyl) benzenboronic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 4-(n-nonyl) benzenboronic acid in these solvents is approximately 30 mg/ml.

4-(n-nonyl) Benzenboronic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 4-(n-nonyl) benzenboronic acid should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 4-(n-nonyl) Benzenboronic acid has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Fatty acid amide hydrolase (FAAH) is the primary enzyme responsible for the hydrolysis of the endocannabinoid arachidonoyl ethanolamide (AEA). 4-(n-nonyl) Benzenboronic acid is a potent inhibitor of FAAH, with an IC₅₀ value of 9.1 nM. It is also able to inhibit monoacylglycerol lipase (MAGL), which hydrolyzes 2-arachidonoyl glycerol (2-AG), but at ~1,000-fold higher concentration (IC₅₀ = 7.9 μM).¹

Reference

1. Minkkilä, A., Saario, S.M., Käsänen, H., *et al.* Discovery of boronic acids as novel and potent inhibitors of fatty acid amide hydrolase. *J. Med. Chem.* **51**, 7057-7060 (2008).

Related Products

URB597 - Item No. 10046 • IDFP - Item No. 10215 • URB937 - Item No. 10674 • CAY10400 - Item No. 71650 • CAY10400 - Item No. 71652 • CAY10402 - Item No. 71655 • URB754 - Item No. 10007691 • JP83 - Item No. 10008660 • JP104 - Item No. 10008661 • CAY10570 - Item No. 10010032 • PF-622 - Item No. 10010907 • PF-750 - Item No. 10010908

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will meet our specifications at the time of delivery.

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