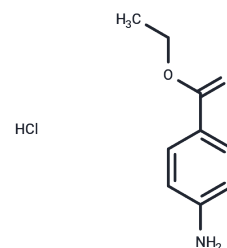


Benzocaine hydrochloride

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 23239-88-5 |
| Formula: | C ₉ H ₁₁ NO ₂ ·HCl |
| Molecular Weight: | 201.65 |
| 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 | Benzocaine hydrochloride (Ethyl 4-aminobenzoate hydrochloride) is a surface anesthetic that acts by preventing transmission of impulses along nerve fibers and at nerve endings. |
| Targets(IC50) | Antibacterial,Sodium Channel |
| In vitro | AZD7762, a more selective Chk1 inhibitor, inhibits Chk1 phosphorylation of a cdc25C peptide by reversibly binding to the ATP-binding site of Chk1, with IC50 of 5 nM and Ki of 3.6 nM. AZD7762 induces cell arrest with EC50 of 0.620 μM, and significantly abrogates the camptothecin induced G2 arrest with an EC50 of 10 nM, by blocking the chk1 dependent degradation of Cdc25A and activation of Cyclin A. AZD7762 (300 nM) enhances the antitumor efficacy of gemcitabine against SW620 and topotecan against MDA-MB-231 by reducing the GI50 values from 24.1 nM and 2.25 μM to 1.08 nM and 0.15 μM, respectively. [1] AZD7762 shows cytotoxicity against a variety of neuroblastoma cell lines bearing p53 wild type, p53 mutation, Mdm2 amplification or p14 deletion with IC50 values ranging from 82.6-505.9 nM. [2] |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 38 mg/mL (188.45 mM),Sonication is recommended. Ethanol: 38 mg/mL (188.45 mM),Sonication is recommended. H2O: <1 mg/mL, (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|------------|-------------|
| 1 mM | 4.9591 mL | 24.7954 mL | 49.5909 mL |
| 5 mM | 0.9918 mL | 4.9591 mL | 9.9182 mL |
| 10 mM | 0.4959 mL | 2.4795 mL | 4.9591 mL |
| 50 mM | 0.0992 mL | 0.4959 mL | 0.9918 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

Von Tungeln LS, et al. Food Chem Toxicol. 2011 Oct;49(10):2530-5.

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