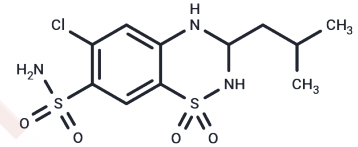


## Buthiazide

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 2043-38-1  |
| Formula:          | C <sub>11</sub> H <sub>16</sub> ClN <sub>3</sub> O <sub>4</sub> S <sub>2</sub>   |
| Molecular Weight: | 353.85   |
| Storage:          | Store at low temperature<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><i>Actual storage temperature shall be subject to the COA.</i> |



## Biological Description

|               |  |
|---------------|--|
| Description   | Buthiazide (Butizide) is a diuretic compound commonly used in cardiovascular and renal research, particularly in studies focused on hypertension and fluid balance regulation, where Buthiazide was employed to investigate electrolyte transport, renal function, and blood pressure control mechanisms in both experimental and translational pharmacology settings. |
| Targets(IC50) | Others   |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.8261 mL | 14.1303 mL | 28.2606 mL |
| 5 mM  | 0.5652 mL | 2.8261 mL  | 5.6521 mL  |
| 10 mM | 0.2826 mL | 1.413 mL   | 2.8261 mL  |
| 50 mM | 0.0565 mL | 0.2826 mL  | 0.5652 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

- Blaschke G, et al. Enantiomers of benzothiadiazine diuretics by direct chromatographic resolution of the racemic drugs. J Pharm Sci. 1985 Apr;74(4):438-42. PubMed .
- Salama A, et al. Ex vivo antigen preparation for the serological detection of drug-dependent antibodies in immune haemolytic anaemias. Br J Haematol. 1984 Nov;58(3):525-31. PubMed .

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