

Diprophylline-D6

Chemical Properties

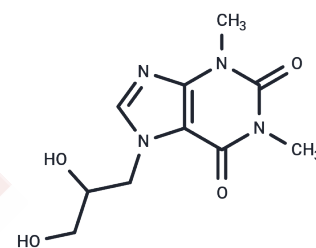
CAS No. :

Formula: C₁₀H₁₄D₆N₄O₄

Molecular Weight: 254.24

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

Diprophylline-D6 is a deuterated compound of Diprophylline. Diprophylline (T0892) has a CAS number of 479-18-5. Dyphylline is a xanthine derivative. Dyphylline exerts bronchodilator effects and to a lesser extent vasodilator and diuretic properties. Dyphylline probably acts as a competitive inhibitor of phosphodiesterase which leads to an increase in intracellular cAMP. This results in relaxation of bronchial smooth muscle and other smooth muscles. Dyphylline may also antagonize adenosinereceptors. Dyphylline is used in the treatment of acute bronchial asthma, chronic bronchitis and emphysema.

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.9333 mL | 19.6665 mL | 39.3329 mL |
| 5 mM | 0.7867 mL | 3.9333 mL | 7.8666 mL |
| 10 mM | 0.3933 mL | 1.9666 mL | 3.9333 mL |
| 50 mM | 0.0787 mL | 0.3933 mL | 0.7867 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286

E_mail: info@targetmol.com

Address: 34 Washington Street, Wellesley Hills, MA 02481