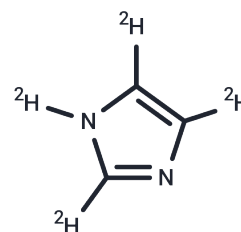


## Imidazole-D4

## Chemical Properties

CAS No. :	6923-01-9
Formula:	C <sub>3</sub> H <sub>4</sub> N <sub>2</sub>
Molecular Weight:	72.1
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	Imidazole-D4 is an isotope-labeled variant of imidazole, which is a heterocyclic aromatic compound. Imidazole (T5202) molecules serve as inhibitors for acetylcholinesterase (AChE) and xanthine oxidase (XO) and have been utilized as corrosion inhibitors. They display a range of biological activities, including antifungal, antitubercular, anti-inflammatory, antioxidant, and analgesic properties. Imidazole (T5202) inhibits platelet microsomes from converting endoperoxides (PGG <sub>2</sub> and PGH <sub>2</sub> ) into thromboxane A <sub>2</sub> . Additionally, imidazole derivatives show inhibitory effects on the SARS-CoV-2 3CLpro enzyme, offering potential for research in Alzheimer's disease, gout, COVID-19, and thrombotic disorders.
Targets(IC50)	Others,Endogenous Metabolite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	13.8696 mL	69.3481 mL	138.6963 mL
5 mM	2.7739 mL	13.8696 mL	27.7393 mL
10 mM	1.387 mL	6.9348 mL	13.8696 mL
50 mM	0.2774 mL	1.387 mL	2.7739 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