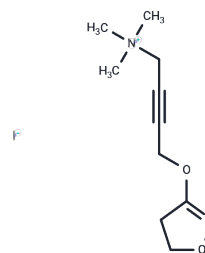


## Iperoxo

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 247079-84-1  |
| Formula:          | C <sub>10</sub> H <sub>17</sub> N <sub>2</sub> O <sub>2</sub>  |
| Molecular Weight: | 324.16   |
| Storage:          | Keep away from direct sunlight<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |   |
|---------------|---|
| Description   | Iperoxo (Iperoxo iodide) is an agonist of Muscarinic AChR and can be used to probe activation-related conformational transitions of muscarinic receptors. |
| Targets(IC50) | AChR  |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 56.7 mg/mL (174.91 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg      |
|-------|-----------|------------|-----------|
| 1 mM  | 3.0849 mL | 15.4245 mL | 30.849 mL |
| 5 mM  | 0.617 mL  | 3.0849 mL  | 6.1698 mL |
| 10 mM | 0.3085 mL | 1.5424 mL  | 3.0849 mL |
| 50 mM | 0.0617 mL | 0.3085 mL  | 0.617 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

Jiménez-Rosés M, et al. Ligand-Triggered Structural Changes in the M(2) Muscarinic Acetylcholine Receptor. *J Chem Inf Model*. 2018 May 29;58(5):1074-1082.

Fish I, et al. Structure-Based Design and Discovery of New M(2) Receptor Agonists. *J Med Chem*. 2017 Nov 22;60(22):9239-9250.

Schrage R, et, al. Agonists with supraphysiological efficacy at the muscarinic M2 ACh receptor. *Br J Pharmacol*. 2013 May;169(2):357-70.

Schrage R, et, al. New insight into active muscarinic receptors with the novel radioagonist [<sup>3</sup>H]iperoxo. *Biochem Pharmacol*. 2014 Aug 1;90(3):307-19.

**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