Iperoxo

Cat. No.: HY-122743

CAS No.: 247079-84-1

Molecular Formula: $C_{10}H_{17}IN_2O_2$

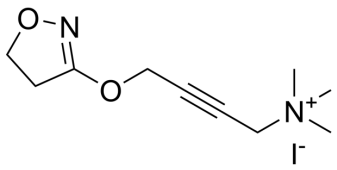
Molecular Weight: 324.16

Target: mAChR

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (192.81 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0849 mL	15.4245 mL	30.8490 mL
	5 mM	0.6170 mL	3.0849 mL	6.1698 mL
	10 mM	0.3085 mL	1.5424 mL	3.0849 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Iperoxo is a potent superagonist of muscarinic acetylcholine receptor (mAChR). [^{3}H]Iperoxo can be used for direct probing activation-related conformational transitions of muscarinic receptors[1][2]. Iperoxo is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

CUSTOMER VALIDATION

- Int J Mol Sci. 2023 Apr 16, 24(8), 7356.

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REFERENCES

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

[2]. Schrage R, et, al. New insight into active muscarinic receptors with the novel radioagonist [^{3}H]iperoxo. Biochem Pharmacol. 2014 Aug 1;90(3):307-19.

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