

MitoTEMPOL biochemical

MitoTEMPOL

CATALOG #
AAA227091

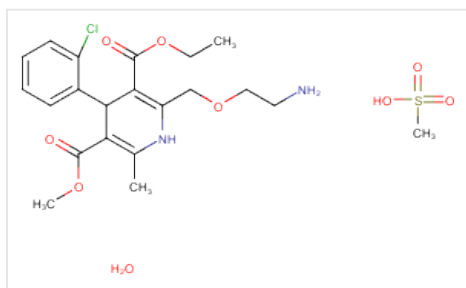
PRODUCT SYNONYMS

MitoTEMPOL; MitoTEMPOL biochemical

PRODUCT SPECIFICATIONS

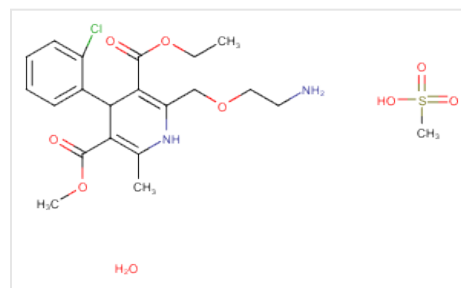
Purity/Purification	98%
SMILES	[Br-].CC1(C)CC(CC(CC)N1[O])OCCCCC[P+](c1ccccc1c1ccccc1)c1ccccc1
Formula	C32H42BrNO2P
CAS	1101113-39-6
Solubility	Ethanol: 50 mg/mL DMF: 50 mg/mL DMSO: 50 mg/mL PBS (pH 7.2): 10 mg/mL <1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure

Amlodipine mesylate monohydrate, CAS 440358-84-9



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ADDITIONAL INFORMATION

Related Product Information for MitoTEMPOL biochemical

MitoTEMPOL is a mitochondria-targeting superoxide dismutase mimetic that reduces mitochondrial O₂⁻ to H₂O₂. Like the related compound MitoTEMPO, MitoTEMPOL combines an antioxidant moiety (here, TEMPOL, also known as 4-hydroxy-TEMPO) with the lipophilic cation triphenylphosphonium, which allows it to pass through lipid bilayers and accumulate in mitochondria. MitoTEMPOL has been used to elucidate the role of mitochondria-derived superoxide in mitochondrial, cellular, and whole animal signaling.

References

1. Gottwald-Hostalek U, Sun N, Barho C, Hildemann S. Management of Hypertension With a Fixed-Dose (Single-Pill) Combination of Bisoprolol and Amlodipine. Clin Pharmacol Drug Dev. 2017 Jan;6(1):9-18. doi: 10.1002/cpdd.309. Epub 2016 Oct 26. PubMed PMID: 27653022.
2. van Zwieten PA. Amlodipine: an overview of its pharmacodynamic and pharmacokinetic properties. Clin Cardiol. 1994 Sep;17(9 Suppl 3):III3-6. Review. PubMed PMID: 9156957.

NCBI AND UNIPROT INFORMATION

Molecular Weight

522.99

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/mitotempol/227091>