

BMX-001

Chemical Properties

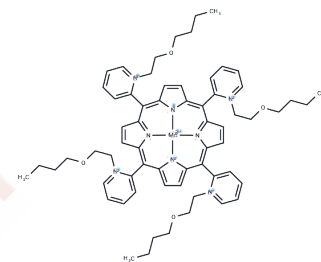
CAS No. : 1379866-50-8

Formula: C₆₄H₇₆MnN₈O₄

Molecular Weight: 1076.299

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	BMX-001 is a third-generation, cationic, lipophilic, manganese (Mn), and porphyrin-based mimetic of the human mitochondrial manganese superoxide dismutase (MnSOD). It also has antioxidant and potential chemoprotective activities.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9291 mL	4.6455 mL	9.2911 mL
5 mM	0.1858 mL	0.9291 mL	1.8582 mL
10 mM	0.0929 mL	0.4646 mL	0.9291 mL
50 mM	0.0186 mL	0.0929 mL	0.1858 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

Anselmo W, Branchetti E, Grau JB, Li G, Ayoub S, Lai EK, Rioux N, Tovmasyan A, Fortier JH, Sacks MS, Batinic-Haberle I, Hazen SL, Levy RJ, Ferrari G. Porphyrin-Based SOD Mimic MnTnBu OE -2-PyP(5+) Inhibits Mechanisms of Aortic Valve Remodeling in Human and Murine Models of Aortic Valve Sclerosis. *J Am Heart Assoc.* 2018 Oct 16;7(20): e007861. doi: 10.1161/JAHA.117.007861. PubMed PMID: 30371255.

Batinic-Haberle I, Tovmasyan A, Spasojevic I. Mn Porphyrin-Based Redox-Active Drugs: Differential Effects as Cancer Therapeutics and Protectors of Normal Tissue Against Oxidative Injury. *Antioxid Redox Signal.* 2018 Dec 1; 29(16):1691-1724. doi: 10.1089/ars.2017.7453. Epub 2018 Aug 28. PubMed PMID: 29926755; PubMed Central PMCID: PMC6207162.

Bruni A, Pepper AR, Pawlick RL, Gala-Lopez B, Gamble A, Kin T, Malcolm AJ, Jones C, Piganelli JD, Crapo JD, Shapiro AMJ. BMX-001, a novel redox-active metalloporphyrin, improves islet function and engraftment in a murine transplant model. *Am J Transplant.* 2018 Aug;18(8):1879-1889. doi: 10.1111/ajt.14705. Epub 2018 Mar 31. PubMed PMID: 29464912.

Leu D, Spasojevic I, Nguyen H, Deng B, Tovmasyan A, Weitner T, Sampaio RS, Batinic-Haberle I, Huang TT. CNS bioavailability and radiation protection of normal hippocampal neurogenesis by a lipophilic Mn porphyrin-based superoxide dismutase mimic, MnTnBuOE-2-PyP(5). *Redox Biol.* 2017 Aug;12:864-871. doi: 10.1016/j.redox.2017.04.027. Epub 2017 Apr 22. PubMed PMID: 28454069; PubMed Central PMCID: PMC5407575.

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