
Product Data Sheet

Product Name: Manganese(salen) chloride

Cat. No.: GC61930

Chemical Properties

Cas. No. 53177-12-1

SMILES [Cl-][Mn+3]123[O-]C4=C(C=[N]1CC[N]2=CC5=C([O-]3)C=CC=C5)C=CC=C4

Formula $C_{16}H_{14}ClMnN_2O_2$ M.Wt 356.69

Solubility DMSO : 8.33 mg/mL (23.35 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Manganese(salen) chloride (EUK-8), a superoxide dismutase and catalase mimetic, is an antioxidant with oxyradical scavenging properties. Manganese(salen) chloride ameliorates acute lung injury in endotoxemic swine[1][2].

Manganese(salen) chloride (25 μ M; 24-72 h) protects organotypic hippocampal slices from β -AP-induced neurotoxicity, and completely blocks β -AP-induced free radical accumulation and lipid peroxidation[2].

Manganese(salen) chloride (25 mg/kg; i.p. 3 times a week for 4 weeks) reduces cardiac oxidative stress and ameliorates pressure overload-induced heart failure in the harlequin mouse mutant[3].

References:

[1]. Gonzalez PK, et, al. EUK-8, a synthetic superoxide dismutase and catalase mimetic, ameliorates acute lung injury in endotoxemic swine. J Pharmacol Exp Ther. 1995 Nov;275(2):798-806.

[2]. Bruce AJ, et, al. beta-Amyloid toxicity in organotypic hippocampal cultures:

Caution: Product has not been fully validated for medical applications. For research use only.

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protection by EUK-8, a synthetic catalytic free radical scavenger. Proc Natl Acad Sci U S A. 1996 Mar 19;93(6):2312-6.

[3]. Empel VPM, et, al. EUK-8, a superoxide dismutase and catalase mimetic, reduces cardiac oxidative stress and ameliorates pressure overload-induced heart failure in the harlequin mouse mutant. J Am Coll Cardiol. 2006 Aug 15;48(4):824-32.

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