

Product Data Sheet

Product Name: MnTE-2-PyP chloride

Cat. No.: GC72995

Chemical Properties

Cas. No. 219818-60-7

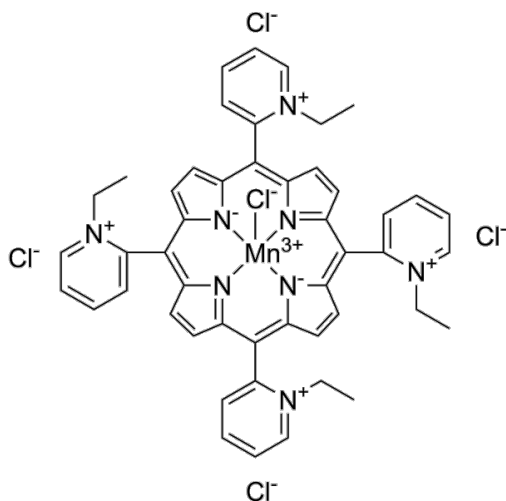
Formula $C_{48}H_{44}Cl_5MnN_8$ M.Wt 965.12

Solubility H_2O : 12.5 mg/mL (12.95 mM;
ultrasonic and warming and heat to 80°C) Storage 4°C, sealed storage, away from moisture

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

MnTE-2-PyP (BMX-010) chloride is a ROS scavenger and potent radioprotector. MnTE-2-PyP also is a manganese porphyrin, protects normal prostate tissue from radiation damage. MnTE-2-PyP can be used for the research of diabetic prostate cancer.

MnTE-2-PyP (30 μM) protects against perglycemia-induced cell death after radiation[1]. MnTE-2-PyP (30 μM) decreases expression of NOX4 and α -SMA, one of the major oxidative enzymes and pro-

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

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fibrotic molecules respectively[1]. MnTE-2-PyP (30 μ M, 5 days) obstructs NF-kB activity by decreasing DNA binding of the p50-p50 homodimer in the irradiated perglycemic environment[1]. MnTE-2-PyP (30 μ M) increases NRF2 mediated cytoprotection by increasing NRF2 protein expression and DNA binding[1].

MnTE2-PyP decreases tumor volume and increases survival in vivo mouse model of prostate cancer[1]. MnTE-2-PyP reduces blood glucose and inhibits pro-fibrotic signaling in a diabetic model[1].

References:

[1]. Arpita Chatterjee, et al. MnTE-2-PyP, a manganese porphyrin, reduces cytotoxicity caused by irradiation in a diabetic environment through the induction of endogenous antioxidant defenses. Redox Biol. 2020 Jul;34:101542.

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