

PRODUCT: Imisopasem manganese**ALTERNATE NAME:** M40403; SC72325; CG4419**CATALOG #:** B1061-2, 10**AMOUNT:** 2 mg, 10 mg**STRUCTURE:****MOLECULAR FORMULA:** $C_{21}H_{35}Cl_2MnN_5$ **MOLECULAR WEIGHT:** 483.38**CAS NUMBER:** 218791-21-0**APPEARANCE:** Yellow solid**SOLUBILITY:** DMSO**PURITY:** $\geq 98\%$ by HPLC**STORAGE:** Store at $-20\text{ }^{\circ}\text{C}$. Protect from air and light

DESCRIPTION: Imisopasem manganese is a manganese-based non-peptidyl mimetic of the human mitochondrial manganese superoxide dismutase (MnSOD), with potential antioxidant and chemo/radioprotective activities. Imisopasem manganese mimics the activity of MnSOD and scavenges reactive oxygen species (ROS), such as superoxide anion, which prevents oxygen free radical damage to macromolecules such as DNA. This reduces ROS-mediated lipid peroxidation, prevents apoptosis and protects against oxygen free radical-induced toxicity in normal tissues.

REFERENCE: Thompson, J.S., *et al.* (2010). *Free Radic. Res.* **44**, 529-540.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

EUK-118 (Cat. No. 2173-5, 25)

EUK-124 (Cat. No. 2174-5, 25)

EUK-234 (Cat. No. 2175-5, 25)

FeTPPS (Cat. No. 2065-25, 100)

Imisopasem manganese (Cat. No. B1061-2,10)

MnTBAP Chloride (Cat. No. 2058-10, 50)

MnTMPyP Pentachloride (Cat. No. 2056-10, 50)

SOD-1 Antibody (Cat. No. 3058-100)

Superoxide Dismutase, human recombinant (Cat. No. 4802-100)

Superoxide Dismutase Activity Assay Kit (Cat. No. K335-100)

USAGE: *FOR RESEARCH USE ONLY! Not to be used in humans*