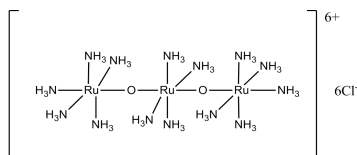


Product: Ruthenium Red**ALTERNATE NAME:** Ammoniated Ruthenium Oxychloride**CATALOG #:** 2490-100, 500**AMOUNT:** 100 mg, 500 mg**STRUCTURE:****MOLECULAR FORMULA:** H₄₂N₁₄O₂Ru₃Cl₆**MOLECULAR WEIGHT:** 786.35**CAS No.** 11103-72-3**APPEARANCE:** Brown or dark purple solid**SOLUBILITY:** H₂O (~8 mg/ml)**STORAGE:** Store at -20°C. Protect from air and light**DESCRIPTION:** Ruthenium red is an inhibitor of mitochondrial Ca²⁺ uniporter; also blocks cell membrane-located capsaicin-activated cation channels (IC₅₀ = 14 nM) and voltage-sensitive Ca²⁺ channels to inhibit neurotransmitter release. In addition, it specifically blocks the curcumin-induced apoptosis in U937 cells.**REFERENCES:** Bae, J.H., *et al.* (2003). *Biochem. Biophys.Res. Commun.* **303**, 1073-1079.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**Amlodipine besylate (**Cat. No. 2378-50, 250**)2-APB (**Cat. No. 1798-100**)Calcitriol (**Cat. No. 1880-50, 250**)Felodipine (**Cat. No. 2399-10, 50**)Pamidronate disodium (**Cat. No. 1884-50, 250**)Ryanodine (**Cat. No. 2489-500, 1000**)Thapsigargin (**Cat. No. 1558-1**)**FOR RESEARCH USE ONLY! Not to be used in humans.**