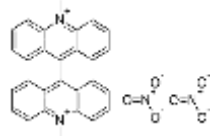


PRODUCT: Lucigenin**RELATED PRODUCTS:**Lucigenin (**B1801**)Luminol (**B1807**)**ALTERNATE NAME:** 9,9'-Bis(N-methylacridinium nitrate); N,N'-Dimethyl-9,9'-biacridinium dinitrate; L-6868; NSC-151912**CATALOG #:** B1801-100,500**AMOUNT:** 100 mg, 500 mg**STRUCTURE:****MOLECULAR FORMULA:** C₂₈H₂₂N₄O₆**MOLECULAR WEIGHT:** 510.50**CAS NUMBER:** 2315-97-1**APPEARANCE:** Yellow solid with orange tinge**SOLUBILITY:** DMSO (~ 5 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20 °C. Protect from air and light**DESCRIPTION:** Lucigenin is a chemiluminescent probe for the detection of superoxide in biological systems. It has been used for the generation of chemiluminescence in the presence of a reductant and oxygen. Lucigenin is also used as a fluorescent chloride-sensitive indicator, with fluorescence being quenched by chloride (excitation: 455 nm; emission: 505 nm). Lucigenin fluorescence is insensitive to phosphate, sulfate, and nitrate.**REFERENCES:** Li, Y., et al. (1998). *J. Biol. Chem.* **273**, 2015-2023.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**USAGE:** **FOR RESEARCH USE ONLY! Not to be used in humans**