**PRODUCT:** Lucigenin

**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:**

![Structure of Lucigenin]

**MOLECULAR FORMULA:** C_{28}H_{22}N_{4}O_{6}

**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.


**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

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**RELATED PRODUCTS:**
- Lucigenin (B1801)
- Luminol (B1807)