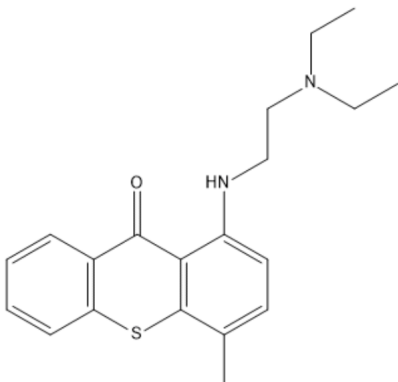


Certificate of Analysis

Catalog Number	BP12681
Product Name	Lucanthone

Physical and Chemical Properties

Synonyms	Lucantona, Lucanthonum
CAS No.	479-50-5
Chemical Formula	C ₂₀ H ₂₄ N ₂ OS
Molecular Weight	340.49
Solubility	DMSO: 25 mg/mL), Need ultrasonic
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Lucanthone is an endonuclease inhibitor of Apurinic endonuclease-1 (APE-1).
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In vitro	<p>Lucanthone is a novel inhibitor of autophagy that induces cathepsin D-mediated apoptosis. To investigate the anticancer activity of Lucanthone, cell viability is measured by MTT assay. Lucanthone reduces cell viability to a similar extent in a panel of seven breast cancer cell lines. In addition, a direct comparison reveals that Lucanthone is significantly more potent than Chloroquine (CQ) at reducing breast cancer cell viability with a mean IC₅₀ of 7.2 μM versus 66 μM for CQ. Measurement of cell viability in two representative cell lines (MDA-MB-231 and BT-20) by ATPlite assay and trypan blue exclusion reveals comparable results.</p>
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Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	<p>Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.</p>

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