Lucanthone hydrochloride

Cat. No.:	HY-B2098A	
CAS No.:	548-57-2	 N
Molecular Formula:	C ₂₀ H ₂₅ ClN ₂ OS	
Molecular Weight:	376.94	O HN
Target:	Parasite; Autophagy	
Pathway:	Anti-infection; Autophagy	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	s

BIOLOGICAL ACTIVITY				
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Description	Lucanthone hydrochloride is an endonuclease inhibitor of Apurinic endonuclease-1 (APE-1).			
IC ₅₀ & Target	APE-1 ^[1]			
In Vitro	anthone hydrochloride is a novel inhibitor of autophagy that induces cathepsin D-mediated apoptosis. To investigate anticancer activity of Lucanthone hydrochloride, cell viability is measured by MTT assay. Lucanthone hydrochloride uces cell viability to a similar extent in a panel of seven breast cancer cell lines. In addition, a direct comparison reveals t Lucanthone hydrochloride is significantly more potent than Chloroquine (CQ) at reducing breast cancer cell viability n a mean IC ₅₀ of 7.2 µM versus 66 µM for CQ. Measurement of cell viability in two representative cell lines (MDA-MB-231 BT-20) by ATPlite assay and trypan blue exclusion reveals comparable results ^[2] .			

REFERENCES

[1]. Chowdhury SM, et al. Graphene nanoribbons as a drug delivery agent for lucanthone mediated therapy of glioblastoma multiforme. Nanomedicine. 2015 Jan;11(1):109-18.

[2]. Carew JS, et al. Lucanthone is a novel inhibitor of autophagy that induces cathepsin D-mediated apoptosis. J Biol Chem. 2011 Feb 25;286(8):6602-13.

Caution: Product has not been fully validated for medical applications. For research use only.

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Product Data Sheet

