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Product Datasheet

Elesclomol, CAS [[488832-69-5]]

FBM-10-4238

Article Name	Elesclomol, CAS [[488832-69-5]]
Biozol Catalog Number	FBM-10-4238
Supplier Catalog Number	10-4238
Alternative Catalog Number	FBM-10-4238-5MG, FBM-10-4238-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Copper chelator/Cuproptosis inducer...
Molecular Weight	400.52
Purity	98% by HPLC NMR (Conforms)
Form	Pale yellow solid
CAS Number	[488832-69-5]
Formula	C19H20N4O2S2
Application Notes	<p>Elesclomol induced oxidative stress in cancer cells via rapid generation of reactive oxygen species.¹ It preferentially binds copper ions outside the cell and selectively transports inside the mitochondria with subsequent reactive oxygen species generation leading to apoptosis.^{2,3} Elesclomol can restore copper homeostasis in models of copper deficiency and disorders of copper metabolism.^{4,5} Copper-induced cell death (Cuproptosis) caused by Elesclomol is now believed to occur via direct binding of copper to lipoylated components of the tricarboxylic acid cycle causing protein aggregation and subsequent iron-sulfur protein loss leading to proteotoxic stress and cell death.⁶</p>