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Product Datasheet

Elesclomol, CAS [[488832-69-5]] FBM-10-4238

Artikelname	Elesclomol, CAS [[488832-69-5]]
Artikelnummer	FBM-10-4238
Hersteller Artikelnummer	10-4238
Alternativnummer	FBM-10-4238-5MG,FBM-10-4238-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Copper chelator/Cuproptosis inducer...
Molekulargewicht	400.52
Reinheit	98% by HPLC NMR (Conforms)
Formulierung	Pale yellow solid
CAS Nummer	[488832-69-5]
Formel	C19H20N4O2S2

Anwendungsbeschreibung

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