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Product Datasheet

IACS-010759, CAS [[1570496-34-2]]

FBM-10-4475

Article Name	IACS-010759, CAS [[1570496-34-2]]
Biozol Catalog Number	FBM-10-4475
Supplier Catalog Number	10-4475
Alternative Catalog Number	FBM-10-4475-5MG,FBM-10-4475-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Mitochondrial Complex I Inhibitor...
Molecular Weight	562.57
Purity	>98% by HPLC NMR (Conforms)
Form	White to off-white solid
CAS Number	[1570496-34-2]
Formula	C ₂₅ H ₂₅ F ₃ N ₆ O ₄ S
Application Notes	<p>IACS-010759 (1570496-34-2) is a potent (IC₅₀ = 1.1 nM isolated mouse complex I) and selective inhibitor of complex I of the mitochondrial electron transport chain (OXPHOS). IACS-010759 displayed in vivo efficacy in glycolysis-deficient glioblastoma and AML models without cytotoxicity to normal cells. The lack of cytotoxicity to normal cells, as opposed to other complex I inhibitors, is attributed to its unique binding location on complex I.² Complex I inhibition by IACS-010759 causes an ROS-induced decrease in the endogenous PP2A inhibitor CIP2A leading to cell death.³ It has also displayed potential in various chemotherapy-resistant cancer cell lines.⁴⁻⁷</p>