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Product Datasheet

iPHF8 FBM-10-4049

Article Name	iPHF8
Biozol Catalog Number	FBM-10-4049
Supplier Catalog Number	10-4049
Alternative Catalog Number	FBM-10-4049-5MG,FBM-10-4049-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Lysine demethylase PHF8 inhibitor...
Molecular Weight	320.40
Purity	>98% by HPLC NMR (Conforms)
Form	Off-white solid
Formula	C19H20N4O
Application Notes	iPHF8 is a specific inhibitor ($IC_{50} = 2.01 \mu M$, $EC_{50} = 2 \mu M$ in HeLa cells) of the human non-heme 2-oxoglutarate JmjC domain oxygenase/lysine demethylase PHF8. PHF8 also demethylates the transcription factor YY1 acting as a co-repressor for many electron transport chain genes driving mROS production and cancer development. It inhibited mROS production, cell proliferation, and colony formation in HCT116 and H1299 cells. iPHF8 significantly decreased tumor size in HCT116 derived tumors and colon cancer patient-derived xenografts.