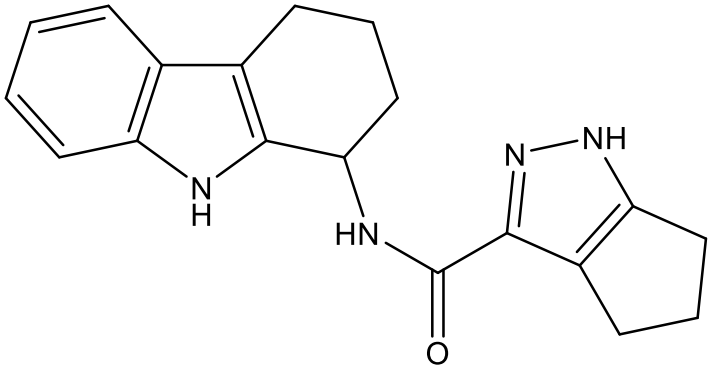
Catalog # 10-4049

iPHF8

N-(2,3,4,9-Tetrahydro-1H-carbazol-1-yl)-1,4,5,6-tetrahydrocyclopenta[c]pyrazole-3-carboxamide

Lot # FBA9115



iPHF8 is a specific inhibitor (IC_{50} = 2.01 µM; EC_{50} = 2 µM 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.

1) Fnaiche *et al.* (2023), *Development of HC-258, a Covalent Acrylamide TEAD Inhibitor That Reduces Gene Expression and Cell Migration;* ACS Med. Chem. Lett. **14** 1746

PHYSICAL DATA

Molecular Weight:	320.40
Molecular Formula:	$C_{19}H_{20}N_4O$
Purity:	>98% HPLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (30 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20ºC for up to 2 years from the date of purchase. Store solutions at -20ºC for up to 3 months.

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