

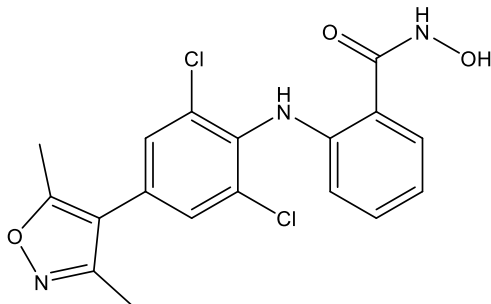
**Catalog #10-4852**

**FB23-2**

CAS# 2243736-45-8

2-[2,6-Dichloro-4-(3,5-dimethyl-1,2-oxazol-4-yl)anilino]-N-hydroxybenzamide

Lot # FBS4041



FB23-2 is an inhibitor ( $IC_{50} = 2.6 \mu M$ ) of the mRNA  $m^6A$  demethylase fat-mass- and obesity-associated protein (FTO).<sup>1</sup> Displays significant anti-proliferative activity in NB4 ( $IC_{50} = 0.8 \mu M$ ) and MONOMAC6 ( $IC_{50} = 1.5 \mu M$ ) cells. Selective against the RNA demethylase ALKB5. FB23-2 induced myeloid differentiation and apoptosis in acute myeloid leukemia cells. FB23-2 suppressed the proliferation and migration of hepatocellular carcinoma cells via suppressing the expression of the kinase ERBB3 and human tubulin beta class Iva (TUBB4A).<sup>2</sup>

- 1) Huang *et al.* (2019), *Small-Molecule Targeting of Oncogenic FTO Demethylase in Acute Myeloid Leukemia*; *Cancer Cell.* **35** 677
- 2) Jiang *et al.* (2024), *Targeting FTO suppresses hepatocellular carcinoma by inhibiting ERBB3 and TUBB4A expression*; *Biochem. Pharmacol.* **226** 116375

**PHYSICAL DATA**

Molecular Weight:	392.24
Molecular Formula:	$C_{18}H_{15}Cl_2N_3O_3$
Purity:	98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (20 mg/mL)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at $-20^{\circ}C$ for up to 2 years from the date of purchase. Solutions in DMSO may be stored at $-20^{\circ}C$ for up to 3 months.

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