

FB 23

**基本信息：**

Cat. No.: GM-2022132

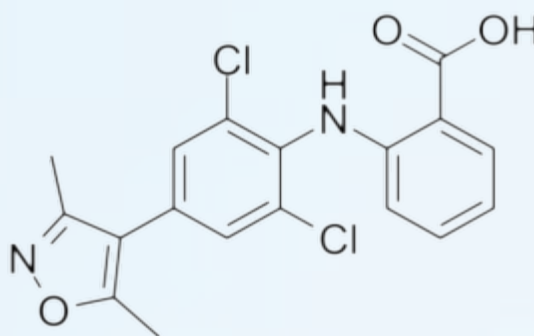
CAS No.: 2243736-35-6

分子式:  $C_{18}H_{14}Cl_2N_2O_3$

分子量：377.22

作用靶点：Others

作用通路：Others



**储存方式：**

Powder      -20°C      3 years    ;    -4°C      2 years  
 In solvent   -80°C      6 months ;    -20°C      1 month

**溶解性数据——体外实验：**

DMSO : 125 mg/mL 331.37 mM; Need ultrasonic)

	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
制备储备液	1 mM	2.6510 mL	13.2549 mL	26.5097 mL
	5 mM	0.5302 mL	2.6510 mL	5.3019 mL
	10 mM	0.2651 mL	1.3255 mL	2.6510 mL

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请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

**储备液的保存方式和期限：** -80°C, 6 months; -20°C, 1 month。

-80°C 储存时，请在6个月内使用，-20°C 储存时，请在1个月内使用。

## BIOLOGICAL ACTIVITY

生物活性	FB23 是种有效的，选择性的 FTO 去甲基化酶抑制剂，IC <sub>50</sub> 为 60 nM。FB23 直接与 FTO 结合并选择性抑制 FTO 的mRNA N6-甲基腺嘌呤脱甲基酶活性。
IC <sub>50</sub> & Target	IC <sub>50</sub> : 60 nM (FTO) <sup>[1]</sup>
体外研究	FB23 (72 hours) treatment inhibits acute myeloid leukemia (AML) cells proliferation with IC <sub>50</sub> values of 44.8 μM, 23.6 μM for NB4 and MONOMAC6 AML cells <sup>[1]</sup> .FB23 treatment causes the significant suppression of MYC targets, E2F targets, and G2M checkpoint signal cascades, which may contribute to the inhibitory effects of FTO inhibitors and FTO KD on cell cycle and proliferation. FB23 treatments activates apoptosis and p53 pathways <sup>[1]</sup> . <small>*These methods are for reference only.</small>
体内研究	A single dose of 3 mg/kg FB23 is i.p. administrated to Sprague Dawley (SD) rats for the pharmacokinetic profile. The C <sub>max</sub> and T <sub>max</sub> value of FB23 are 142.5 ng/mL and 0.4 hr, respectively <sup>[1]</sup> . <small>*These methods are for reference only.</small>

## REFERENCES

[1].Yue Huang, et al. Small-Molecule Targeting of Oncogenic FTO Demethylase in Acute Myeloid Leukemia. Cancer Cell. 2019 Apr 15;35(4):677-691.e10.

\* For research use only. Not for therapeutic or diagnostic purposes.

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