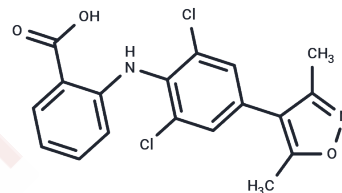


FB23

## Chemical Properties

CAS No. : 2243736-35-6  
 Formula: C<sub>18</sub>H<sub>14</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>3</sub>  
 Molecular Weight: 377.22  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



## Biological Description

Description	FB23 directly binds to FTO and selectively inhibits FTO's m6A demethylase activity. (FTO, an mRNA N6-methyladenosine (m6A) demethylase, was reported to promote leukemogenesis.)
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 38.57 mg/mL (102.25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 3.86 mg/mL (10.23 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.86 mg/mL (10.23 mM),Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.651 mL	13.2549 mL	26.5097 mL
5 mM	0.5302 mL	2.651 mL	5.3019 mL
10 mM	0.2651 mL	1.3255 mL	2.651 mL
50 mM	0.053 mL	0.2651 mL	0.5302 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Small-molecule targeting of oncogenic FTO demethylase in acute myeloid leukemia[J]. Science Foundation in China, 2019.

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