TOCRIS a biotechne brand

Print Date: Oct 1st 2020

Batch No.: 1

Certificate of Analysis

www.tocris.com

Catalog No.: 5950

Product Name: Ethyl LipotF

CAS Number: 1808089-27-1 IUPAC Name: Ethyl (*E*)-4-(2-

Ethyl (E)-4-(2-(4-benzylnicotinoyl)hydrazinyl)-4-oxobut-2-enoate

1. PHYSICAL AND CHEMICAL PROPERTIES

	Batch Molecular Formula:	$C_{19}H_{19}N_3O_4$
	Batch Molecular Weight:	353.38
	Physical Appearance:	White solid
	Solubility:	ethanol to 20 mM DMSO to 100 mM
	Storage:	Store at -20°C
2.	ANALYTICAL DATA	
	HPLC:	Shows 99.7% purity
	¹ H NMR:	Consistent with structure
	Mass Spectrum:	Consistent with structure
	Microanalysis:	Carbon Hydrogen Nitrogen
		Theoretical 64.58 5.42 11.89
		Found 64.28 5.44 11.87

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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IUPAC Name: Ethyl (*E*)-4-(2-(4-benzylnicotinoyl)hydrazinyl)-4-oxobut-2-enoate

Description:

Selective FTO inhibitor (IC₅₀ = 0.81 μ M). Exhibits >30-fold selectivity for FTO over ALKBH2, 3 and 5 and >100-fold selectivity over PHD2 and JMJD2A. Increases levels of modified N⁶-methyladenosine (m6A) in HeLa cells in a concentration-dependent manner.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{19}H_{19}N_3O_4$ Batch Molecular Weight: 353.38 Physical Appearance: White solid

Minimum Purity: ≥98%

Storage: Store at -20°C

Solubility & Usage Info: ethanol to 20 mM

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ water bath).

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Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Cheong *et al* (2018) A fluorescent methylation-switchable probe for highly sensitive analysis of FTO N⁶-methyladenosine demethylase activity in cells. Chem.Sci. **9** 7174. PMID: 30288236.

Toh *et al* (2015) A strategy based on nucleotide specificity leads to a subfamily-selective and cell-active inhibitor of N⁶-methyladenosine demethylase FTO. Chem.Sci. **6** 112. PMID: 28553460.

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