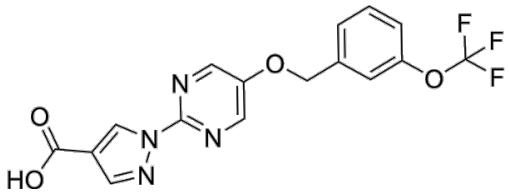
Product Data Sheet

Product Name: ALKBH1-IN-1
Cat. No.: GC74034

Chemical Properties

Cas. No.			
Formula	$C_{16}H_{11}F_3N_4O_4$	M.Wt	380.28
Solubility	DMSO : ≥ 100 mg/mL (262.96 mM)	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

ALKBH1-IN-1 (Compound 13h) is a selective ALKBH1 inhibitor, with an IC50 of 0.026 μM and 1.39 μM in the fluorescence polarization and enzyme activity assay, respectively. ALKBH1-IN-1 can modulate the level of DNA 6mA modifications. ALKBH1-IN-1 can be used to study the functions of ALKBH1 and DNA 6mA.

ALKBH1-IN-1 (3 μM, 48 h) stabilizes the ALKBH1 protein in U251 cells overexpressed with ALKBH1[1].ALKBH1-IN-1 (10 μM, 48 h) increases the amount of 6mA in DNA in U251 cells[1].

References:

Caution: Product has not been fully validated for medical applications. For research use only.
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[1]. Xiong L, et al. Discovery of a Potent and Cell-Active Inhibitor of DNA 6mA Demetlase ALKBH1. J Am Chem Soc. 2024 Mar 13;146(10):6992-7006.

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