

Product Data Sheet

Product Name: ALKBH1-IN-1

Cat. No.: GC74034

Chemical Properties

Cas. No.

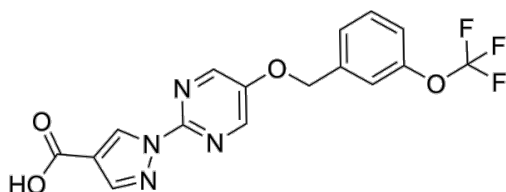
Formula $C_{16}H_{11}F_3N_4O_4$ M.Wt 380.28

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 IC_{50} of $0.026\text{ }\mu\text{M}$ and $1.39\text{ }\mu\text{M}$ 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 ($3\text{ }\mu\text{M}$, 48 h) stabilizes the ALKBH1 protein in U251 cells overexpressed with ALKBH1[1]. ALKBH1-IN-1 ($10\text{ }\mu\text{M}$, 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 Demethylase ALKBH1. J Am Chem Soc. 2024 Mar 13;146(10):6992-7006.

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