
Product Data Sheet

Product Name: GNE-064
Cat. No.: GC68439

Chemical Properties

Cas. No. 1997321-20-6

Formula $C_{17}H_{21}N_5O_2$ M.Wt 327.38

Solubility DMSO : ≥ 125 mg/mL (381.82 mM) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

IC₅₀: 0.035 μ M (SMARCA4)^[1]

GNE-064 (compound 5) is a selective, orally active and highly soluble inhibitor of **SMARCA4**, **SMARCA2** and **PBRM1** bromodomains 5. GNE-064 inhibits SMARCA4 with an **IC₅₀** of 0.035 μ M and inhibits SMARCA2 with an **EC₅₀** of 0.10 μ M. GNE-064 possess **K_d**s with 0.01, 0.016, 0.018 and 0.049 μ M for SMARCA4, SMARCA2, PBRM1 bromodomains 5 and PBRM1 bromodomains 2, respectively. GNE-064 can be used as a chemical probe for the research of drug synthesis^[1].

GNE-064 (0-0.5 μ M; 1 h) inhibits SMARCA2 in ZsGreen-SMARCA2 BD-expressing U2OS cells^[1].

Cell Viability Assay^[1]

Cell Line: ZsGreen-SMARCA2 BD-expressing U2OS cells

Concentration: 0-0.5 μ M

Caution: Product has not been fully validated for medical applications. For research use only.

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Incubation Time: 1 hour

Result: Inhibited SMARCA2 in ZsGreen-SMARCA2 BD-expressing U2OS cells with an EC₅₀ of 0.1 μM.

GNE-064 (compound 5) (0.5 and 1.0 mg/kg; i.v. and p.o. once) exhibits ideal pharmacokinetics value in female CD-1 mice [1].

Animal Model: Female CD-1 mice^[1]

Dosage: 0.5 mg/kg (i.v.) and 1.0 mg/kg (p.o.)

Administration: Intravenous injection and oral gavage; 0.5 mg/kg and 1.0 mg/kg once

Result: Showed a low unbound plasma clearance with 16 mL/min/kg, a reasonable half-life of 1.1 h and good oral bioavailability of 59%.

[1]. Taylor AM, et al. GNE-064: A Potent, Selective, and Orally Bioavailable Chemical Probe for the Bromodomains of SMARCA2 and SMARCA4 and the Fifth Bromodomain of PBRM1. J Med Chem. 2022 Aug 5.

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