

Product Data Sheet

Product Name: NSD-IN-3

Cat. No.: GC73982

Chemical Properties

Cas. No. 744260-15-9

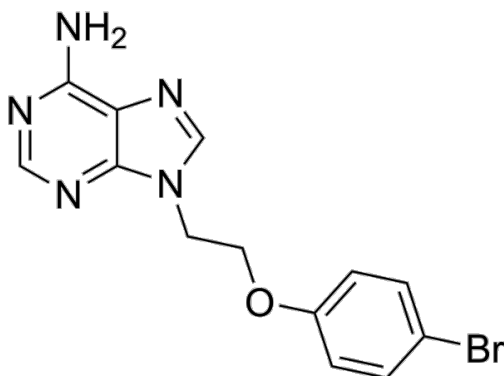
Formula $C_{13}H_{12}BrN_5O$ M.Wt 334.17

Solubility DMSO : 25 mg/mL (74.81 mM; Need ultrasonic) 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

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

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NSD-IN-3 (compound 3) is a potent nuclear receptor binding SET domain (NSD) inhibitor. NSD-IN-3 inhibits NSD2-SET and NSD3-SET with IC₅₀ values of 0.81 μ M and 0.84 μ M, respectively. NSD-IN-3 inhibits histone H3K36 dimethylation and decreases the expression of NSDs-targeted genes in non-small cell lung cancer cells. NSD-IN-3 induces s-phase cell cycle arrest and apoptosis.

References:

[1]. Lianhua Piao, et al. Discovery of potent small molecule inhibitors of histone lysine methyltransferase NSDs. Eur J Med Chem. 2024 Feb 20;268:116264.

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