Product Datasheet

NSD1 inhibitor BT5

Catalog No. **BP-02238** · CAS **2351225-46-0** · Form **free base** · Physical state **other** · Color **White to light yellow** · Version **1.0** · Revision **2026-09-03**

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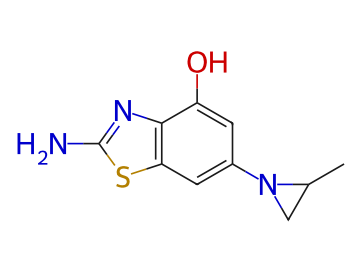
Target	Research area
Histone Methyltransferase	**Cancer**

Molecular formula	**$C_{10}H_{11}N_3OS$**
Molecular weight	**221.2790**

STRUCTURE



DESCRIPTION

NSD-IN-2 (compound 151) is a potent and irreversible NSD1 inhibitor. NSD-IN-2 can be used in research of cancer.

BIOLOGICAL ACTIVITY

In Vitro

NSD-IN-2 (Compound 151) (10 μM, 20 h) forms a covalent protein adduct with NSD1.

NSD-IN-2 rdecresaes H3K36me2 recruitment on KLF9 promoter in chondrocytes.

SOLUBILITY

Soluble in DMSO

In vitro	DMSO : 100 mg/mL

REFERENCES

[1]. Tomasz C, et, al. Nsd family inhibitors and methods of treatment therewith. US20190183865A1.

[2]. Yang Q, et al. Nuclear binding SET domain 1 alleviates cartilage ferroptosis in knee osteoarthritis by upregulating the krüppel-like factor 9/autophagy-related 14 pathway via H3K36me2 modification. J Cell Commun Signal. 2025 Jun 29;19(3):e70027.