



## Product Information

### HMT inhibitor UNC0646, Purity ≥98%

**Cat. No.:** X24-05-ZQ548

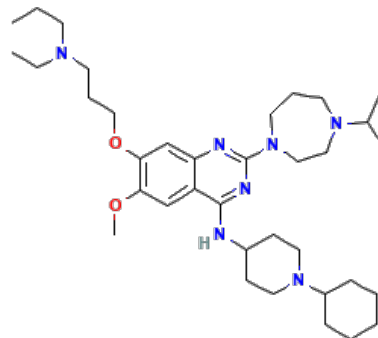
**Size:** 10 mg; 25 mg; 50 mg; 100 mg

**CAS Number:** 1320288-17-2

**Compound CID:** 53315882

**Synonym:** 1320288-17-2; UNC 0646; UNC-0646; Histone methyltransferase inhibitor

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

|                          |                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>       | UNC0646, soluble in DMSO and ethanol and insoluble in water, inhibits the enzymes that add methyl groups to histone proteins, altering chromatin structure and gene expression. It targets G9a and GLP. |
| <b>Molecular Weight</b>  | 621.9                                                                                                                                                                                                   |
| <b>Molecular Formula</b> | C <sub>36</sub> H <sub>59</sub> N <sub>7</sub> O <sub>2</sub>                                                                                                                                           |
| <b>Targets</b>           | G9a: 6 nM; GLP: <15 nM                                                                                                                                                                                  |
| <b>IUPAC Name</b>        | <i>N</i><br>-(1-cyclohexylpiperidin-4-yl)-6-methoxy-7-(3-piperidin-1-ylpropoxy)-2-(4-propan-2-yl-1,4-diazepan-1-yl)quinazolin-4-amine                                                                   |
| <b>InChI</b>             | InChI=1S/C36H59N7O2/c1-28(2)41-19-10-20-43(24-23-41)36-38-32-27-34(45-25-11-18-40-16-8-5-9-17-40)33(44-3)26-31(32)35(39-36)37-29-14-21-42(22-15-29)30-12-6-4-7-13-30/h26-30H,4-25H2,1-3H3,(H,37,38,39)  |
| <b>InChI Key</b>         | OUKWLRHRXOPODD-UHFFFAOYSA-N                                                                                                                                                                             |
| <b>Canonical SMILES</b>  | CC(C)N1CCCN(CC1)C2=NC3=CC(=C(C=C3C(=N2)NC4CCN(CC4)C5CCCCC5)OC)OCCCN6CCCC6                                                                                                                               |
| <b>Form</b>              | Lyophilized powder                                                                                                                                                                                      |
| <b>Purity</b>            | ≥98%                                                                                                                                                                                                    |
| <b>Solubility</b>        | DMSO: 31 mg/mL (49.84 mM); Water: Insoluble; Ethanol: 47 mg/mL                                                                                                                                          |
| <b>Identity</b>          | Confirmed by NMR/HPLC/MS.                                                                                                                                                                               |
| <b>Stability</b>         | The product is stable for three years when stored at the recommended temperature in lyophilized powder.                                                                                                 |



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**Applications**

UNC0646 can be used to study the biochemical and cellular roles of G9a inhibition in histone methylation.

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**Storage**

Store at -20°C.

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