



## Product Information

### HMT inhibitor CBP-IN-1, Purity $\geq 98\%$

**Cat. No.:** X24-05-ZQ567

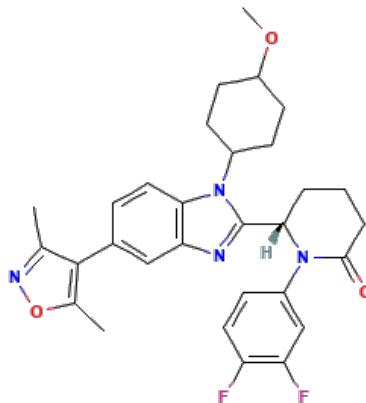
**Size:** 5 mg; 10 mg; 50 mg; 100 mg

**CAS Number:** 2222941-37-7

**Compound CID:** 134457551

**Synonym:** 2222941-37-7; Inobrodib; CCS-1477; CCS1477; Inobrodib [INN]; Histone methyltransferase inhibitor

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



#### Product Information

|                          |                                                                                                                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>       | CBP-IN-1 inhibits enzymes that add acetyl groups to histones, affecting chromatin structure and regulating gene transcription.                                                                                      |
| <b>Molecular Weight</b>  | 534.6                                                                                                                                                                                                               |
| <b>Molecular Formula</b> | C <sub>30</sub> H <sub>32</sub> F <sub>2</sub> N <sub>4</sub> O <sub>3</sub>                                                                                                                                        |
| <b>IUPAC Name</b>        | (6S)-1-(3,4-difluorophenyl)-6-[5-(3,5-dimethyl-1,2-oxazol-4-yl)-1-(4-methoxycyclohexyl)benzimidazol-2-yl]piperidin-2-one                                                                                            |
| <b>InChI</b>             | InChI=1S/C30H32F2N4O3/c1-17-29(18(2)39-34-17)19-7-14-26-25(15-19)33-30(36(26)20-8-11-22(38-3)12-9-20)27-5-4-6-28(37)35(27)21-10-13-23(31)24(32)16-21/h7,10,13-16,20,22,27H,4-6,8-9,11-12H2,1-3H3/t20?,22?,27-/m0/s1 |
| <b>InChI Key</b>         | SKDNDJWEBPQKCS-RIQBOWGZSA-N                                                                                                                                                                                         |
| <b>Canonical SMILES</b>  | CC1=C(C(=NO1)C)C2=CC3=C(C=C2)N(C(=N3)C4CCCC(=O)N4C5=CC(=C(C=C5)F)F)C6CCC(CC6)OC                                                                                                                                     |
| <b>Isomeric SMILES</b>   | CC1=C(C(=NO1)C)C2=CC3=C(C=C2)N(C(=N3)[C@@H]4CCCC(=O)N4C5=CC(=C(C=C5)F)F)C6CCC(CC6)OC                                                                                                                                |
| <b>Form</b>              | Lyophilized powder                                                                                                                                                                                                  |
| <b>Purity</b>            | $\geq 98\%$                                                                                                                                                                                                         |
| <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.                                                                                                             |
| <b>Applications</b>      | CBP-IN-1 can be used to inhibit the histone acetyltransferase CBP, useful in epigenetics research.                                                                                                                  |



**Storage**

Store at -20°C.

---