

Certificate of Analysis

| Catalog Number | BP13105 |
|----------------|-------------|
| Product Name | CDK12-IN-E9 |

Physical and Chemical Properties

| CAS No. | 2020052-55-3 |
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| Chemical Formula | C24H30N6O2 |
| Molecular Weight | 434.544 |
| Solubility | |
| Storage | Powder: -20°C for 2 years In solvent: -80°C for 1 year |
| Chemical Structure OR Tested Image | OH NO CONTRACTOR OF THE CONTRA |

Product Information

| Description | CDK12-IN-E9 is a potent and selective covalent CDK12 inhibitor and non-covalent CDK9 inhibitor while avoiding ABC transporter-mediated efflux. It has a weak binding ability to CDK7/CyclinH complex (IC50> 1 μ M). |
|-------------|---|
|-------------|---|

| Targets&IC50 | cdk2/cyclin A:932 nM, CDK7/Cyclin H/MNAT1:1210 nM, CDK9/CyclinT1:23.9 nM |
|--------------|--|
| In vitro | CDK12-IN-E9 (E9; 0-3000 nM; 6 hours; Kelly, PC-9, and NCI-H82 cells) treatment leads to a dose-dependent decrease in phosphorylated and total RNAPII in THZ1r NB and lung cancer models, accompanied by decreased MYC and MCL1 expression. CDK12-IN-E9 (E9; 10 nM-10 µM; 72 hours; Kelly, LAN5, PC-9, SK-N-BE2, NCI-H82 and NCI-H3122 cells) treatment shows potent antiproliferative activity in THZ1R NB and lung cancer cells (IC50s: 8 to 40 nM). CDK12-IN-E9 also results in increased PARP cleavage, and an increase in the subGI population in THZ1r lung cancer cells, while in NB cells, more of a G2/M arrest is seen after a 24-hr exposure to CDK12-IN-E9. |

Analytical Data

| HPLC | Shows Min >99% purity |
|---------------------------------|--|
| H-NMR | Consistent with structure |
| Stability and Solubility Advice | Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details. |

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