

## Product Datasheet

### MBL-IN-5 (orb3028045)

<b>Catalog Number</b>	orb3028045
<b>Category</b>	Small Molecules
<b>Description</b>	MBL-IN-5 is an inhibitor of metallo-β-lactamase (MBL). It effectively suppresses three clinically significant B1 subfamily MBLs: NDM-1, VIM-1, and IMP-1 with IC50 values of 0.05 nM, 14 nM, and 21 nM respectively. MBL-IN-5 notably enhances the efficacy of carbapenem antibiotics against MBL-producing clinical strains and, when combined with IPM antibiotics, significantly reduces bacterial load in a thigh infection model.
<b>Target</b>	Antibacterial, Beta-lactamase
<b>MW</b>	353.80
<b>CAS Number</b>	2876921-34-3
<b>Formula</b>	C <sub>20</sub> H <sub>16</sub> ClNO <sub>3</sub>
<b>SMILES</b>	O=C(O)C=1NC=2C=3C=CC=CC3CCC2C1C=4C=C(Cl)C=CC4OC
<b>Storage</b>	-20°C
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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