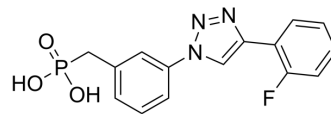


## MBL-IN-1

Cat. No.:	HY-155104
Molecular Formula:	C <sub>15</sub> H <sub>13</sub> FN <sub>3</sub> O <sub>3</sub> P
Molecular Weight:	333.25
Target:	Beta-lactamase; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	MBL-IN-1 (compound 41) is a β-Lactamase inhibitor, with the IC <sub>50</sub> ranging from 0.10 to 25.85 μM. MBL-IN-1 can be used for research of bacterial infections <sup>[1]</sup> .
IC <sub>50</sub> & Target	0.10-25.85 μM (β-Lactamase)
In Vitro	MBL-IN-1 (compound 41) has inhibitory activity to all of B Metallo-β-lactamases (NDM-1, IMP-1, VIM-1, VIM-2, AND VIM-5) with IC <sub>50</sub> values ranging from 0.10 μM to 25.85 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Yan YH, et al. Metal binding pharmacophore click-derived discovery of new broad-spectrum metallo-β-lactamase inhibitors. Eur J Med Chem. 2023;257:115473.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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