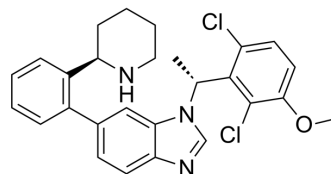


LSN3160440

Cat. No.:	HY-153193
CAS No.:	2765539-59-9
Molecular Formula:	C ₂₇ H ₂₇ Cl ₂ N ₃ O
Molecular Weight:	480.43
Target:	GLP Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LSN3160440 is an allosteric modulator of GLP-1R, which acts as a protein-protein interaction (PPI) stabilizer or molecular glue to assist in the adhesion of inactive GLP-1 (9-36) NH ₂ on GLP-1R ^{[1][2]} .
In Vitro	LSN3160440 binds between the TM1 and TM2 interfaces of GLP-1R, and the benzimidazole group of LSN3160440 interacts with GLP-1R in a variety of ways, such as van der Waals contacts with Leu142, π-π stacking with Tyr145, and frequent water bridging with Lys202 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Hui-Jun Liao, et al. Investigating Potential GLP-1 Receptor Agonists in Cyclopeptides from *Pseudostellaria heterophylla*, *Linum usitatissimum*, and *Drymaria diandra*, and Peptides Derived from Heterophyllin B for the Treatment of Type 2 Diabetes: An In Silico Study. *Metabolites*. 2022 Jun 15;12(6):549.
- [2]. Hongyu Wu, et al. Molecular glues modulate protein functions by inducing protein aggregation: A promising therapeutic strategy of small molecules for disease treatment. *Acta Pharm Sin B*. 2022 Sep;12(9):3548-3566.

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

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