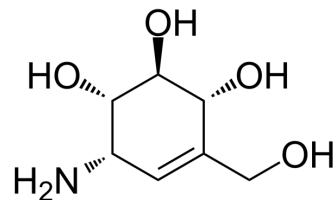


Valienamine

Cat. No.:	HY-131504A
CAS No.:	38231-86-6
Molecular Formula:	C ₇ H ₁₃ NO ₄
Molecular Weight:	175.18
Target:	Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Valienamine is the alpha-glucosidase inhibitor. Valienamine is the key functional component of many natural glycosidase inhibitors including the crop protectant validamycin A and the antidiabetic agent acarbose ^[1] .
IC ₅₀ & Target	alpha-glucosidase ^[1]

REFERENCES

- [1]. Degwert U, et al. Studies on the biosynthesis of the alpha-glucosidase inhibitor acarbose: valienamine, a m-C7N unit not derived from the shikimate pathway. J Antibiot (Tokyo). 1987;40(6):855-861.
- [2]. Cui L, et al. A Validamycin Shunt Pathway for Valienamine Synthesis in Engineered Streptomyces hygroscopicus 5008. ACS Synth Biol. 2020;9(2):294-303.

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

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