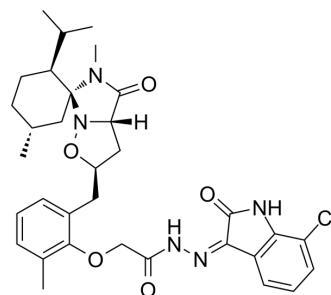


α -Amylase/ α -Glucosidase-IN-11

Cat. No.:	HY-162390
Molecular Formula:	C ₃₃ H ₄₀ ClN ₅ O ₅
Molecular Weight:	622.15
Target:	Amylases; Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

α -Amylase/ α -Glucosidase-IN-11 (Compound 5d) is a isoxazolidine-isatin hybrid with significant antidiabetic activity. α -Amylase/ α -Glucosidase-IN-11 competitively inhibits α -amylase (IC_{50} = 30.39 μ M) and α -glucosidase (IC_{50} = 65.1 μ M), two key digestive enzymes. α -Amylase/ α -Glucosidase-IN-11 does not cross the blood-brain barrier^[1].

REFERENCES

[1]. Ghannay S, et al. Identification of dual-target isoxazolidine-isatin hybrids with antidiabetic potential: Design, synthesis, in vitro and multiscale molecular modeling approaches. *Heliyon*. 2024 Feb 11;10(4):e25911.

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

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