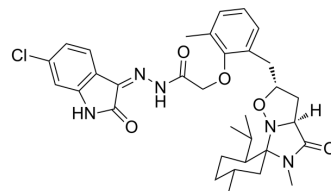


## $\alpha$ -Amylase/ $\alpha$ -Glucosidase-IN-10

Cat. No.:	HY-162373
Molecular Formula:	C <sub>33</sub> H <sub>40</sub> ClN <sub>5</sub> O <sub>5</sub>
Molecular Weight:	622.15
Target:	Amylases; Glucosidase; P-glycoprotein
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

$\alpha$ -Amylase/ $\alpha$ -Glucosidase-IN-10 (compound 5d) is an  $\alpha$ -amylase and  $\alpha$ -glucosidase inhibitor (IC<sub>50</sub>: 30.39  $\mu$ M and 65.1  $\mu$ M) with potential diabetes inhibitory effects.  $\alpha$ -Amylase/ $\alpha$ -Glucosidase-IN-10 exhibits high gastrointestinal (GI) absorption in ADMET (Absorption, Distribution, Metabolism, Excretion and Toxicity) prediction. While  $\alpha$ -Amylase/ $\alpha$ -Glucosidase-IN-10 acts as a substrate for P-gp and does not cross the blood-brain barrier (BBB), there may be a risk of central nervous system side effects<sup>[1]</sup>.

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

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