



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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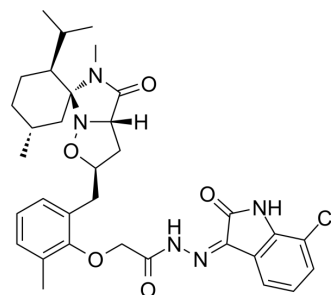
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## $\alpha$ -Amylase/ $\alpha$ -Glucosidase-IN-11

Cat. No.:	HY-162390
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
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

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

### 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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