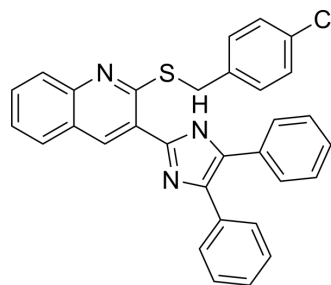


## $\alpha$ -Glucosidase-IN-55

Cat. No.:	HY-158037
Molecular Formula:	C <sub>31</sub> H <sub>22</sub> ClN <sub>3</sub> S
Molecular Weight:	504.04
Target:	Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	$\alpha$ -Glucosidase-IN-55 (Compound 8g) is an orally active and competitive alpha-glucosidase inhibitor, with IC <sub>50</sub> and K <sub>i</sub> values of 12.1 and 9.66 $\mu$ M, respectively. $\alpha$ -Glucosidase-IN-55 can be used for the research into type 2 diabetes mellitus (T2DM) to improve blood sugar control and metabolic health <sup>[1]</sup> .
<b>In Vivo</b>	$\alpha$ -Glucosidase-IN-55 (2-8 mg/kg, p.o., daily for 28 days) significantly decreases the levels of fasting blood glucose (FBG) in diabetic rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Azmi A, et al. Alpha-glucosidase inhibitory and hypoglycemic effects of imidazole-bearing thioquinoline derivatives with different substituents: In silico, in vitro, and in vivo evaluations. *Bioorg Chem.* 2024 Mar;144:107106.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA