

$\alpha$ -Amylase-IN-11

## Chemical Properties

CAS No. :

Formula: C<sub>22</sub>H<sub>18</sub>N<sub>4</sub>O<sub>5</sub>

Molecular Weight: 386.47

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	$\alpha$ -Amylase-IN-11 (compound C5f) is an $\alpha$ -amylase inhibitor with an IC <sub>50</sub> of 0.56 $\mu$ M, effective in reducing glucose levels in vivo. Additionally, it exhibits moderate inhibitory activity against $\alpha$ -glucosidase with an IC <sub>50</sub> of 11.03 $\mu$ M. In mouse models, $\alpha$ -Amylase-IN-11 significantly decreases glucose concentrations, indicating its potential for diabetes research.
Targets(IC <sub>50</sub> )	Amylase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5875 mL	12.9376 mL	25.8752 mL
5 mM	0.5175 mL	2.5875 mL	5.175 mL
10 mM	0.2588 mL	1.2938 mL	2.5875 mL
50 mM	0.0518 mL	0.2588 mL	0.5175 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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