

# Acarbose (sulfate)

Catalog No: tcsc1788



## Available Sizes

**Size:** 200mg

**Size:** 1g



## Specifications

**CAS No:**

1221158-13-9

**Formula:**

$C_{25}H_{45}NO_{22}S$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

10 mM in H<sub>2</sub>O

**Alternative Names:**

Bay-g 5421 sulfate

**Observed Molecular Weight:**

743.68

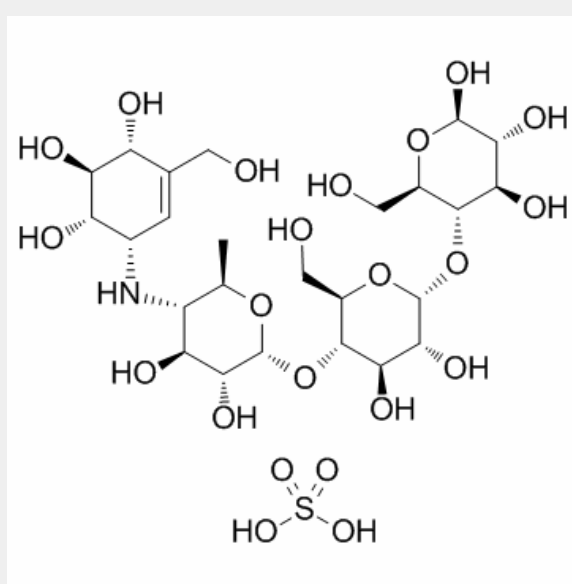
## Product Description

Acarbose sulfate is an inhibitor of alpha glucosidase, an anti-diabetic drug.

***In Vitro:***

Acarbose (1, 2, and 3  $\mu$ M) dose- and time-dependently inhibits TNF- $\alpha$ -induced VSMC proliferation and migration. Acarbose (1, 2, and 3  $\mu$ M) dose-dependently decreases  $\beta$ -galactosidase, Ras expression and increased p-AMPK expression in TNF- $\alpha$  pre-treated A7r5 cells<sup>[2]</sup>.

***In Vivo:*** Acarbose (300 mg/60 kg body weight) decreases the fasting blood glucose, and regulates the glucose tolerance of DM rats without body weight loss. Acarbose significantly suppresses serum IL6 and TNF- $\alpha$  in DM rats<sup>[1]</sup>. Acarbose (2.5 and 5.0 mg/kg) significantly and dose-dependently decreases the intensity of neointimal IL-6, TNF- $\alpha$ , and iNOS staining, and significantly increases the intensity of neointimal p-AMPK staining. Acarbose (2.5 and 5.0 mg/kg) significantly and dose-dependently decreases neointimal Ras and  $\beta$ -galactosidase expression in HCD-fed rabbits without body weight loss<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!