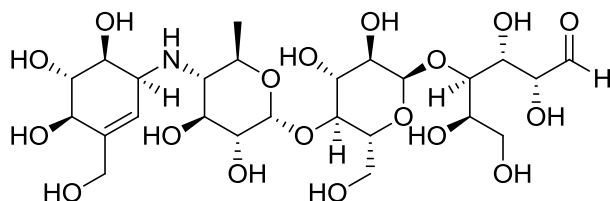


## Acarbose

Code No.: **BIA-A1231**

Pack sizes: **25 mg, 100 mg**



Synonyms : Amylostatin J, Bay g 5421, alpha-GHI

## Specifications

CAS #	: 56180-94-0
Molecular Formula	: C <sub>25</sub> H <sub>43</sub> NO <sub>18</sub>
Molecular Weight	: 645.6
Source	: <i>Actinoplanes</i> sp.
Appearance	: White powder
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in water with partial methanol, ethanol DMF and DMSO solubility.

## Application Notes

Acarbose is pseudo-oligosaccharide with a terminal C7-cyclitol patented in 1975 by Bayer. Acarbose is a component of the amylostatin complex produced by species of *Actinoplanes* and *Streptomyces*. Acarbose acts as a potent inhibitor of  $\alpha$ -glucosidases and saccharases. Since 1990, acarbose has been used therapeutically for the treatment of type 2 diabetes.

## References

1. Chemistry and Biochemistry of Microbial  $\alpha$ -Glucosidase Inhibitors. Truscheit, E. et al., *Angew. Chem. Int. Ed. Engl.* 1981, 20, 744.
2. Acarbose. A preliminary review of its pharmacodynamic and pharmacokinetic properties, and therapeutic potential. Clissold S. P. & Edwards C. *Drugs.* 1988, 35, 214.