

PRODUCT: Acarbose

ALTERNATE NAMES: O-4,6-dideoxy-4-[[[(1S,4R,5S,6S)-4,5,6-trihydroxy-3-(hydroxymethyl)-2-cyclohexen-1-yl]amino]- α -D-glucopyranosyl-(1 \rightarrow 4)-O- α -D-glucopyranosyl-(1 \rightarrow 4)-D-glucose; BAY-g 5421

CATALOG NUMBER: B2104-100, 500

AMOUNT: 100 mg, 500 mg

STRUCTURE:

MOLECULAR FORMULA: C₂₅H₄₃NO₁₈

MOLECULAR WEIGHT: 645.6

CAS NUMBER: 56180-94-0

APPEARANCE: White to off-white solid

SOLUBILITY: H₂O (50 mg/ml)

PURITY: \geq 98%

STORAGE: Store at -20 °C. Protect from air and moisture

DESCRIPTION: Acarbose is an inhibitor of α -glucosidase and pancreatic α -amylase with antihyperglycemic activity. Acarbose binds to and inhibits α -glucosidase, an enteric enzyme found in the brush border of the small intestines that hydrolyzes oligosaccharides and disaccharides into glucose and other monosaccharides. Acarbose has been used to inhibit postprandial hyperglycemia associated with diabetes without cardiovascular complications.

REFERENCE: Huang, T., *et al.* (2013). *J. Hematol. Oncol.* **6**, 1-9

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Conduritol B epoxide (**9574**)

Miglitol (**2335**)

Pellitorine (**2053**)

USAGE: **FOR RESEARCH USE ONLY! Not to be used in humans**