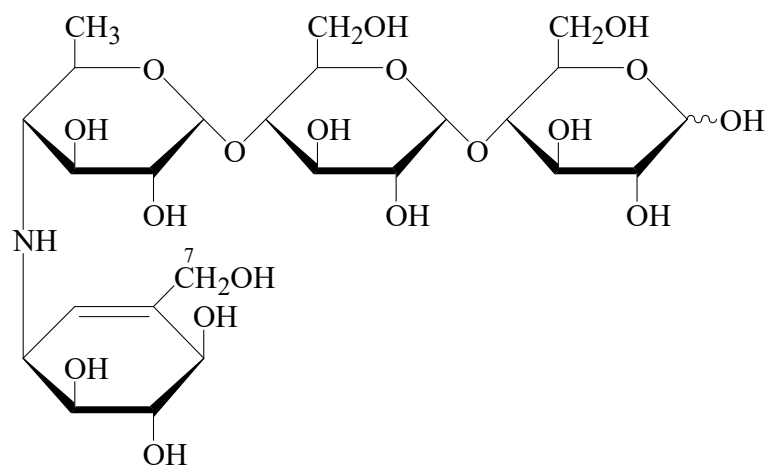




>>Entry Name: Acarbose, BAN, INN, USAN

Synonym(s): 4,6-Dideoxy-4-[[4,5,6-trihydroxy-3-(hydroxymethyl)-2-cyclohexen-1-yl]amino]- α -D-glucopyranosyl-(1 $\rightarrow$ 4)- α -D-glucopyranosyl-(1 $\rightarrow$ 4)-D-glucose, 9Cl. Amylostatin J. Glucobay. Bay g 5421. α -GHI. Precose. Prandase



CAS Registry Number: 56180-94-0

Extra CAS Registry Numbers(s): 82642-63-5

Molecular Formula: C₂₅H₄₃NO₁₈

Molecular Weight: 645.611

Accurate Mass: 645.248019

Percentage Composition: C 46.51%; H 6.71%; N 2.17%; O 44.61%

General Statement: A component of the Amylostatin complex. See also Amylostatin [CKT20-I](#)

Biological Source: Isol. from *Actinoplanes* sp.

Biological Use/Importance: A potent inhibitor of α -glucosidases and saccharases. Used for treatment of diabetes, hyperlipidaemia and obesity

Physical Description: Amorph.

Development Status: Launched in 1990

Optical Rotation: [α]_D +147.2 (H₂O). [α]_D²⁰ +171.3

Solubility: BERDY SOL: Sol. H₂O; fairly sol. MeOH; poorly sol. EtOH, hexane

>>Derivative: 7-O-Phosphate

Molecular Formula: C₂₅H₄₃NO₂₁P

Molecular Weight: 724.583

Accurate Mass: 724.206526

Percentage Composition: C 41.44%; H 5.98%; N 1.93%; O 46.37%; P 4.27%

Biological Source: From *Actinoplanes* sp.

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