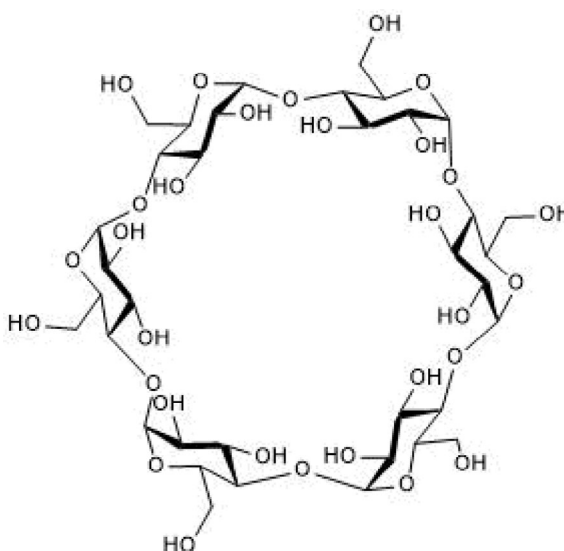


Product Name: α -Cyclodextrin
CAS Number: 10016-20-3

Catalog No.: 3180 Batch No.: 1
EC Number: 233-007-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₆H₆₀O₃₀
Batch Molecular Weight: 972.85
Physical Appearance: White solid
Solubility: DMSO to 100 mM
water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Water content: 9.2 %

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: α-Cyclodextrin

Catalog No.: 3180

1

CAS Number: 10016-20-3

EC Number: 233-007-4

Description:

α-Cyclodextrin (α-CD) is a cylindrical oligosaccharide presenting a hydrophilic surface and a lipophilic cavity. α-Cyclodextrin can form inclusion complexes with a diverse range of hydrophobic compounds. These complexes increase the aqueous solubility, dissolution rate, and bioavailability of the guest compounds.

Physical and Chemical Properties:

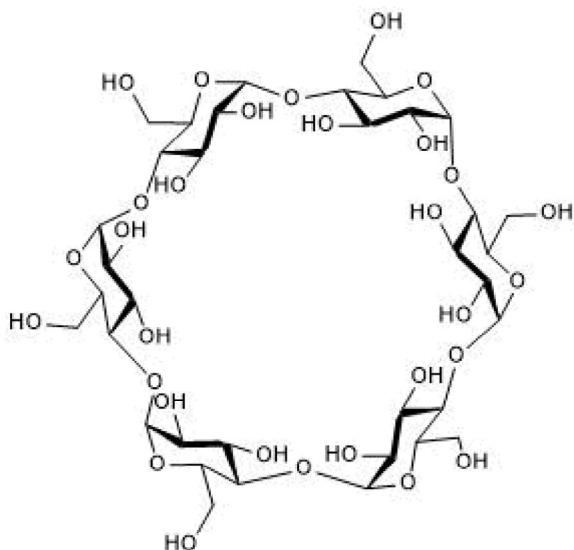
Batch Molecular Formula: C₃₆H₆₀O₃₀

Batch Molecular Weight: 972.85

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Rodriguez-Aller et al (2015) New prostaglandin analog formulation for glaucoma treatment containing cyclodextrins for improved stability, solubility and ocular tolerance. *Eur.J.Pharm.Biopharm.* **95** 203. PMID: 25960331.

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