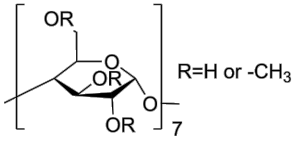


# Methyl- $\beta$ -cyclodextrin

货号: **B26663**



## 产品信息

生物活性	Methyl- $\beta$ -cyclodextrin (Methyl-beta-cyclodextrin) is a cyclic heptasaccharide used to deliver hydrophobic drugs based on its property of solubilizing non-polar substances. Methyl- $\beta$ -cyclodextrin is also extensively used as a cholesterol-depleting reagent. Methyl- $\beta$ -cyclodextrin strongly reduces clathrin-dependent endocytosis. Methyl- $\beta$ -cyclodextrin blocks cell migrasome formation.
CAS	128446-36-6
中文名称	甲基- $\beta$ -环糊精
分子量	1310 (Average)
体外研究	<p>Methyl-<math>\beta</math>-cyclodextrin is extensively used to increase the permeability of cells, and thereby increase the uptake of small molecules such as glucose and nano-particles.</p> <p>Cyclodextrins are a family of cyclic oligosaccharides with a hydrophilic outer surface and a lipophilic central cavity. Cyclodextrins molecules are relatively large with a number of hydrogen donors and acceptors and, thus in general, they do not permeate lipophilic membranes. In the pharmaceutical industry, cyclodextrins have mainly been used as complexing agents to increase aqueous solubility of poorly soluble drugs and to increase their bioavailability and stability. Cyclodextrins are used in pharmaceutical applications for numerous purposes, including improving the bioavailability of drugs.</p> <p>Methyl-<math>\beta</math>-cyclodextrin quickly induces caspase-dependent apoptosis in PEL cells via cholesterol depletion from the plasma membrane. Methyl-<math>\beta</math>-cyclodextrin inhibits the growth of all PEL cell lines in a dose-dependent manner. The IC<sub>50</sub> is 3.33-4.23 mM in each cell line.</p> <p>Methyl-<math>\beta</math>-cyclodextrin is a highly water soluble cyclic heptasaccharide consisting of a <math>\beta</math>-glucopyranose unit, has been reported as the most effective agent for the depletion of cholesterol from cells among the various cholesterol-depleting agents.</p> <p><b>The accuracy of these methods have not been independently confirmed. They are for reference only.</b></p>
体内研究	
形式	Solid
运输条件	Room temperature in continental US; may vary elsewhere.
保存条件	
溶解性	<p>In Vitro:</p> <p><b>DMSO : <math>\geq</math> 100 mg/mL</b></p> <p><b>H<sub>2</sub>O : <math>\geq</math> 50 mg/mL</b></p> <p>*"<math>\geq</math>" means soluble, but saturation unknown.</p>

纯度	99.95%
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