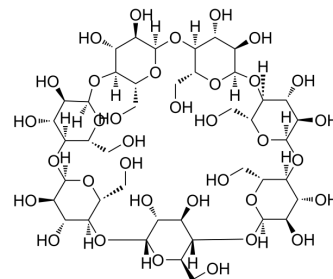


β-Cyclodextrin

Cat. No.:	HY-107201		
CAS No.:	7585-39-9		
Molecular Formula:	C ₄₂ H ₇₀ O ₃₅		
Molecular Weight:	1134.98		
Target:	Influenza Virus		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

H₂O : 7 mg/mL (6.17 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.8811 mL	4.4054 mL	8.8107 mL
	5 mM		0.1762 mL	0.8811 mL	1.7621 mL
	10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

β-Cyclodextrin is a cyclic polysaccharide composed of seven units of glucose (α-D-glucopyranose) linked by α-(1,4) type bonds. β-Cyclodextrin has often been used to enhance the solubility of agents. β-Cyclodextrin has anti-influenza virus H1N1 activities.

In Vitro

β-Cyclodextrin (Beta-cyclodextrin; β-CD) is a cyclic polysaccharide composed of seven units of glucose (α-D-glucopyranose) linked by α-(1,4) type bonds, which presents a hydrophilic external surface and a hydrophobic internal cavity^[1]. In the pharmaceutical industry, β-Cyclodextrin (β-CD) has often been used to enhance the solubility of drugs, such as indomethacin, naringin, celecoxib, and citric acid^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Immunity. 2021 May 11;54(5):962-975.e8.

- Cell Mol Immunol. 2024 Aug;21(8):826-841.
- Cell Death Differ. 2024 Aug;31(8):983-998.
- Plant Cell. 2026 Jun 27:koag193.
- Mater Today Bio. 2025 Aug 11:34:102179.

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REFERENCES

- [1]. Campos EVR, et al. Chitosan nanoparticles functionalized with β -cyclodextrin: a promising carrier for botanical pesticides. Sci Rep. 2018 Feb 1;8(1):2067.
- [2]. Cui L, et al. Effect of β -cyclodextrin complexation on solubility and enzymatic conversion of naringin. Int J Mol Sci. 2012 Nov 5;13(11):14251-61.
- [3]. Goncharova EP, et al. A Novel Sulfonated Derivative of β -Cyclodextrin Effectively Inhibits Influenza A Virus Infection in vitro and in vivo. Acta Naturae. 2019 Jul-Sep;11(3):20-30.
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Caution: Product has not been fully validated for medical applications. For research use only.

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