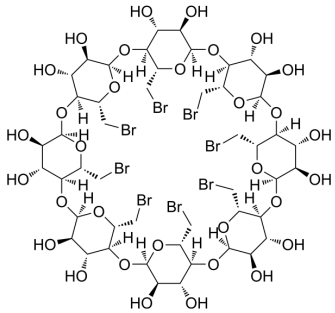
Octakis-(6-bromo-6-deoxy)-γ-cyclodextrin

Cat. No.:	HY-133994
CAS No.:	53784-84-2
Molecular Formula:	$C_{48}H_{72}Br_8O_{32}$
Molecular Weight:	1800.3
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (69.43 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.5555 mL	2.7773 mL	5.5546 mL
	5 mM	0.1111 mL	0.5555 mL	1.1109 mL
	10 mM	0.0555 mL	0.2777 mL	0.5555 mL

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

BIOLOGICAL ACTIVITY

Description

Octakis-(6-bromo-6-deoxy)-γ-cyclodextrin is a perbrominated γ-cyclodextrin at the primary side. Octakis-(6-bromo-6-deoxy)-γ-cyclodextrin is also a commonly used intermediate in the modification of cyclodextrin[1].

In Vitro

Octakis-(6-bromo-6-deoxy)-γ-cyclodextrin is stacked head-to-head along the a-axis forming columns. Octakis-(6-bromo-6-deoxy)-γ-cyclodextrin has a feature that alternates hydrophobic and hydrophilic layers are formed in the crystal[1].

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

REFERENCES

[1]. Anastasia Paulidou, et al. Crystal and molecular structure of octakis(6-bromo-6-deoxy)-gamma-cyclodextrin. A novel stacking of a distorted macrocycle. Carbohydr Res. 2007 Aug 13;342(11):1519-24.

Caution: Product has not been fully validated for medical applications. For research use only.

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