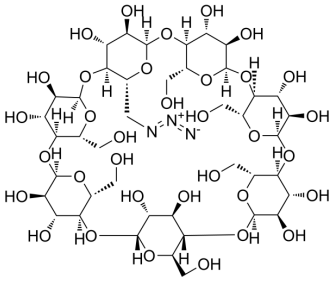
6A-Azido-6A-deoxy-β-cyclodextrin

Cat. No.:	HY-101532		
CAS No.:	98169-85-8		
Molecular Formula:	$C_{42}H_{69}N_3O_{34}$		
Molecular Weight:	1160		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

6A-Azido-6A-deoxy-β-cyclodextrin (β-CDN3; 6A-deoxy-6A-azido-β-cyclodextrin) is a new water-soluble Schiff base ligand based on β-cyclodextrin (HY-107201). 6a-Azido-6a-deoxy-β-cyclodextrin can be used for biaqueous hydroformylation. β-cyclodextrin (βCD) has a unique affinity for Dexamethasone (HY-14648), and can be used as a topical osmotic enhancer to introduce it into the agent carrier system[1][2]. 6A-Azido-6A-deoxy-β-cyclodextrin is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAc) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

REFERENCES

[1]. Dauchy M, et al. New water-soluble Schiff base ligands based on β-cyclodextrin for aqueous biphasic hydroformylation reaction[J]. Pure and Applied Chemistry, 2018, 90(5): 845-855.

[2]. Giulbudagian M, et al. Enhanced topical delivery of dexamethasone by β-cyclodextrin decorated thermoresponsive nanogels. Nanoscale. 2017 Dec 21;10(1):469-479.

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