



Product Information

6-Monodeoxy-6-monoazido-β-cyclodextrin

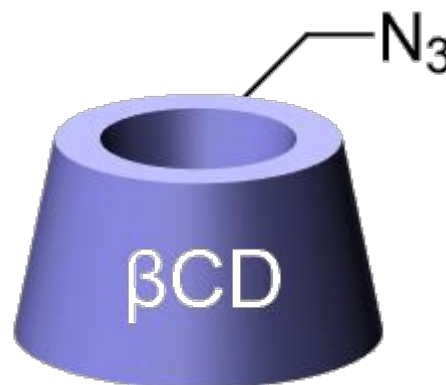
Cat. No.: X23-11-YM122

Size: 1 g; 2 g; 5 g; 10 g

CAS Number: 98169-85-8

Synonym: MoAZBCD

This product is for research use only and is not intended for diagnostic use.



Product Information

Molecular Weight	1160
Molecular Formula	C ₄₂ H ₆₉ O ₃₄ N ₃
IUPAC Name	(1 <i>S</i> ,3 <i>R</i> ,5 <i>R</i> ,6 <i>S</i> ,8 <i>R</i> ,10 <i>R</i> ,11 <i>S</i> ,13 <i>R</i> ,15 <i>R</i> ,16 <i>S</i> ,18 <i>R</i> ,20 <i>R</i> ,21 <i>S</i> ,23 <i>R</i> ,25 <i>R</i> ,26 <i>S</i> ,28 <i>R</i> ,30 <i>R</i> ,31 <i>S</i> ,33 <i>R</i> ,35 <i>R</i> ,36 <i>R</i> ,37 <i>R</i> ,38 <i>R</i> ,39 <i>R</i> ,40 <i>R</i> ,41 <i>R</i> ,42 <i>R</i> ,43 <i>R</i> ,44 <i>R</i> ,45 <i>R</i> ,46 <i>R</i> ,47 <i>R</i> ,48 <i>R</i> ,49 <i>R</i>))-5-(Azidomethyl)-10,15,20,25,30,35-hexakis(hydroxymethyl)-2,4,7,9,12,14,17,19,22,24,27,29,32,34 -tetradecaaoxaoctacyclo[31.2.2.23.6.28,11.213,16.218,21.223,26.228,31]nonatetracontane-36,37,38, 39,40,41,42,43,44,45,46,47,48,49-tetradecol
InChI	InChI=1S/C42H69N3O34/c43-45-44-1-8-29-15(52)22(59)36(66-8)74-30-9(2-46)68-38(24(61)17(30) 54)76-32-11(4-48)70-40(26(63)19(32)56)78-34-13(6-50)72-42(28(65)21(34)58)79-35-14(7-51)71-41 (27(64)20(35)57)77-33-12(5-49)69-39(25(62)18(33)55)75-31-10(3-47)67-37(73-29)23(60)16(31)53/ h8-42,46-65H,1-7H2/t8-,9-,10-,11-,12-,13-,14-,15-,16-,17-,18-,19-,20-,21-,22-,23-,24-,25-,26-,27-,28- ,29-,30-,31-,32-,33-,34-,35-,36-,37-,38-,39-,40-,41-,42-/m1/s1
InChI Key	CNXCXSMYMLPAMS-FOUAGVGXSA-N
Canonical SMILES	C(C1C2C(C(C(O1)OC3C(OC(C(C3O)O)OC4C(OC(C(C4O)O)OC5C(OC(C(C5O)O)OC6C(OC(C(C6 O)O)OC7C(OC(C(C7O)O)OC8C(OC(O2)C(C8O)O)CO)CO)CO)CO)CO)CO)O)N=[N+]=[N-]
Isomeric SMILES	C([C@@H]1[C@@H]2[C@@H]([C@H]([C@H](O1)O[C@@H]3[C@H](O[C@@H]([C@@H]([C@H] 3O)O)O[C@@H]4[C@H](O[C@@H]([C@@H]([C@H]4O)O)O[C@@H]5[C@H](O[C@@H]([C@@H] [C@H]5O)O)O[C@@H]6[C@H](O[C@@H]([C@@H]([C@H]6O)O)O[C@@H]7[C@H](O[C@@H]([[C@@H]([C@H]7O)O)O[C@@H]8[C@H](O[C@H](O2)[C@@H]([C@H]8O)O)CO)CO)CO)CO)CO)O)N=[N+]=[N-]
Form	White to slight yellow powder
Purity	>95%
Impurities	Beta-cyclodextrin, 6A,6X-dideoxy-6A,6X-diazido-beta-cyclodextrin



Solubility	6-Monodeoxy-6-monoazido- β -cyclodextrin is insoluble in methanol and water at 25°C.
Quality Level	Fine chemical grade
Applications	6-Monodeoxy-6-monoazido- β -cyclodextrin is a monosubstituted cyclodextrin and can be used for the bioconjugation and labeling of biomolecules such as proteins, nucleic acids, and peptides.
Storage	Store at room temperature, in tightly closed container.
