



Product Information

Carboxymethyl- β -cyclodextrin sodium salt

Cat. No.: XGB0003

Size: 1 g; 5 g

MDL: MFCD00285608

PubChem Substance ID: 57647952

NACRES: NA.25

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

Product Information

InChI	1S/C56H84O49/c57-22(58)8-85-1-15-43-29(71)36(78)50(92-15)100-44-16(2-86-9-23(59)60)94-52(38(80)31(44)73)102-46-18(4-88-11-25(63)64)96-54(40(82)33(46)75)104-48-20(6-90-13-27(67)68)98-56(42(84)35(48)77)105-49-21(7-91-14-28(69)70)97-55(41(83)34(49)76)103-47-19(5-89-12-26(65)66)95-53(39(81)32(47)74)101-45-17(3-87-10-24(61)62)93-51(99-43)37(79)30(45)72/h15-21,29-56,71-84H,1-14H2,(H,57,58)(H,59,60)(H,61,62)(H,63,64)(H,65,66)(H,67,68)(H,69,70)/t15-,16-,17-,18-,19-,20-,21-,29+,30+,31+,32+,33+,34+,35+,36+,37+,38+,39+,40+,41+,42+,43-,44-,45-,46-,47-,48-,49-,50-,51-,52-,53-,54-,55-,56-/m1/s1
SMILES string	<chem>O[C@H]1[C@H](O)[C@@H]2O[C@H]3O[C@H](COCC(O)=O)[C@@H](O[C@H]4O[C@H](COCC(O)=O)[C@@H](O[C@H]5O[C@H](COCC(O)=O)[C@@H](O[C@H]6O[C@H](COCC(O)=O)[C@@H](O[C@H]7O[C@H](COCC(O)=O)[C@@H](O[C@H]8O[C@H](COCC(O)=O)[C@@H](O[C@H]1O[C@@H]2COCC(O)=O)[C@@H](O)[C@@H]8O)[C@@H](O)[C@@H]7O)[C@@H](O)[C@@H]6O)[C@@H](O)[C@@H]5O)[C@@H](O)[C@@H]4O)[C@@H](O)[C@H]3O</chem>
Quality Level	100
Applications	Cyclic oligosaccharides composed of D-glucose units (connected by $\alpha(1\rightarrow4)$ glycosidic bonds) are called cyclodextrins. (2-Carboxyethyl)- β -cyclodextrin and other negatively charged cyclodextrins can be used to chirally identify and resolve enantiomeric cationic racemic mixtures by capillary electrophoresis. Carboxymethyl- β -cyclodextrin can be used in the development of drug delivery vehicles (such as nanocarriers) and as a nucleic acid transfection agent.

Safety Information

Personal Protective Equipment Eyeshields, Gloves, type N95 (US)

WGK Germany WGK 3



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