



Product Information

2-Chloro-4-nitrophenyl-β-D-maltotrioside, Purity≥95%

Cat. No.: X25-01-WXX457

Size: 100 mg; 200 mg; 500 mg; 1 g

MDL: MFCD01862982

CAS Number: 165522-16-7

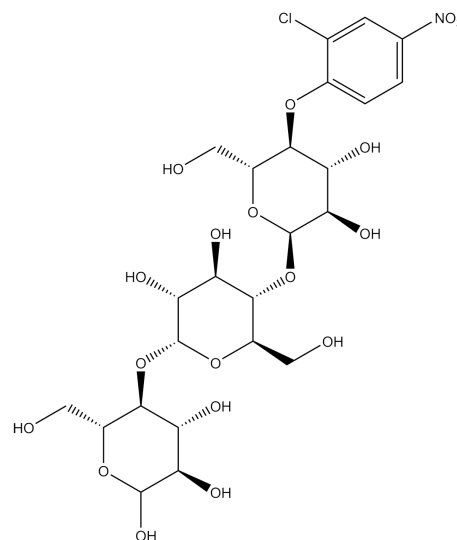
Compound CID: 71312235

Synonym: 165522-16-7; 2-Chloro-4-nitrophenyl-beta-D-maltotrioside;

2-Chloro-4-Nitrophenyl beta-D-Maltotriose; 2-Chloro-4-nitrophenyl b-D-maltotrioside;

(2R,3R,4S,5S,6R)-2-[(2R,3S,4R,5R,6R)-6-[(2R,3S,4R,5R,6S

)-6-(2-chloro-4-nitrophenoxy)-4,5-dihydroxy-2-(hydroxymethyl)oxan-3-yl]oxy-4,5-dihydroxy-2-(hydroxymethyl)oxan-3-yl]oxy-6-(hydroxymethyl)oxane-3,4,5-triol



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

Product Information

Description	2-Chloro-4-nitrophenyl-β-D-maltotrioside includes a phenyl group substituted with chlorine and a nitro group, attached to a sugar derivative known as maltotrioside.
Molecular Weight	659.98
Molecular Formula	C ₂₄ H ₃₄ ClNO ₁₈
IUPAC Name	(2R,3R,4S,5S,6R)-2-[(2R,3S,4R,5R,6R)-6-[(2R,3S,4R,5R,6S)-6-(2-chloro-4-nitrophenoxy)-4,5-dihydroxy-2-(hydroxymethyl)oxan-3-yl]oxy-4,5-dihydroxy-2-(hydroxymethyl)oxan-3-yl]oxy-6-(hydroxymethyl)oxane-3,4,5-triol
InChI	InChI=1S/C24H34ClNO18/c25-8-3-7(26(37)38)1-2-9(8)39-22-18(35)15(32)20(11(5-28)41-22)44-24-19(36)16(33)21(12(6-29)42-24)43-23-17(34)14(31)13(30)10(4-27)40-23/h1-3,10-24,27-36H,4-6H2/t10-,11-,12-,13-,14+,15-,16-,17-,18-,19-,20-,21-,22-,23-,24-/m1/s1
InChI Key	KMYYNUOXSFGLNX-KKFBLJMZSA-N
Canonical SMILES	C1=CC(=C(C=C1[N+](=O)[O-])Cl)OC2C(C(C(C(O2)CO)OC3C(C(C(C(O3)CO)OC4C(C(C(C(O4)CO)O)O)O)O)O)O
Isomeric SMILES	C1=CC(=C(C=C1[N+](=O)[O-])Cl)O[C@@H]2[C@@H]([C@H]([C@@H]([C@H](O2)CO)O[C@@H]3[C@@H]([C@H]([C@@H]([C@H](O3)CO)O[C@@H]4[C@@H]([C@H]([C@@H]([C@H](O4)CO)O)O)O)O)O)O
Form	Solid
Purity	≥95%



Applications

2-Chloro-4-nitrophenyl- β -D-maltotrioside is a chromogenic substrate that is used in bioluminescence and fluorescence assays for the detection of enzymes.

Storage

Store at -20°C.
