CD BioGlyco
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Product Information

1-*O*-Acetyl-2,3,5-tri-*O*-(4-chlorobenzoyl)-β-D-ribofuranose, Purity≥95%

Cat. No.: X25-01-WXX329

Size: 100 mg; 250 mg; 500 mg; 1000 mg

MDL: MFCD04039381

CAS Number: 144084-01-5

Compound CID: 10416267

Synonym: 144084-01-5; 1-*O*-Acetyl-2,3,5-tri-*O*-(4-chlorobenzoyl)-beta-D-ribofuranose; [(2*R*,3*R*,4*R*,5*S*)-5-acetyloxy-3,4-bis[(4-chlorobenzoyl)oxy]oxolan-2-yl]methyl 4-chlorobenzoate; beta-D-Ribofuranose, 1-acetate 2,3,5-tris(4-chlorobenzoate)

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

Product Information

Description	1-*O*-Acetyl-2,3,5-tri-*O*-(4-chlorobenzoyl)-β-D-ribofuranose is protected with acetylation at the anomeric position and chlorobenzoyl groups at the 2nd, 3rd, and 5th positions, enhancing its stability.
Molecular Weight	607.82
Molecular Formula	$C_{28}H_{21}Cl_3O_9$
IUPAC Name	[(2*R*,3*R*,4*R*,5*S*)-5-acetyloxy-3,4-bis[(4-chlorobenzoyl)oxy]oxolan-2-yl]methyl 4-chlorobenzoate
InChI	InChI=1S/C28H21Cl3O9/c1-15(32)37-28-24(40-27(35)18-6-12-21(31)13-7-18)23(39-26(34)17-4-10-20(30)11-5-17)22(38-28)14-36-25(33)16-2-8-19(29)9-3-16/h2-13,22-24,28H,14H2,1H3/t22-,23-,24-,28-/m1/s1
InChI Key	PWENFUAUZHQOQD-CBUXHAPBSA-N
Canonical SMILES	CC(=O)OC1C(C(C(O1)COC(=O)C2=CC=C(C=C2)Cl)OC(=O)C3=CC=C(C=C3)Cl)OC(=O)C4=CC=C(C=C4)Cl
Isomeric SMILES	CC(=O)O[C@H]1[C@@H]([C@@H]([C@H](O1)COC(=O)C2=CC=C(C=C2)Cl)OC(=O)C3=CC=C(C=C3)Cl)OC(=O)C4=CC=C(C=C4)Cl
Form	Solid
Purity	≥95%
Applications	1-*O*-Acetyl-2,3,5-tri-*O*-(4-chlorobenzoyl)-β-D-ribofuranose has an important role in glycochemistry and medicinal chemistry.
Storage	Store at -20°C.

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