CD BioGlyco
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Product Information

Raffinose undecaacetate

Cat. No.: X24-04-QCY249

Size: 5 mg; 10 mg; 50 mg; 100 mg; 200 mg

MDL: MFCD00047544

CAS Number: 6462-12-0

Compound CID: 3083963

Synonym: 6424-12-0; D-Raffinoseundecaacetate; 1,3,4,6-Tetra-*O*-acetyl-b-D-fructofuranosyl-*O*-2,3,4,6-tetra-*O*-acetyl-a-D-galactopyranosyl-(1,6)-a-D-glucopyranoside triacetate; [3,4,5-triacetyloxy-6-[[3,4,5-triacetyloxy-6-[3,4-diacetyloxy-2,5-bis(acetyloxymethyl)oxolan-2-yl]oxyoxan-2-yl]methoxy]oxan-2-yl] methyl acetate

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

Product Information

Description	Raffinose undecaacetate is a structurally and physically stable laboratory standard.
Molecular Weight	966.84
Molecular Formula	$C_{40}H_{54}O_{27}$
IUPAC Name	[3,4,5-Triacetyloxy-6-[[3,4,5-triacetyloxy-6-[3,4-diacetyloxy-2,5-bis(acetyloxymethyl)oxolan-2-yl]oxyoxan-2-yl]methoxy]oxan-2-yl]methyl acetate
InChI	InChI=1S/C40H54O27/c1-16(41)52-12-27-30(56-19(4)44)33(59-22(7)47)35(61-24(9)49)38(64-27)54-13-28-31(57-20(5)45)34(60-23(8)48)36(62-25(10)50)39(65-28)67-40(15-55-18(3)43)37(63-26(11)51)32(58-21(6)46)29(66-40)14-53-17(2)42/h27-39H,12-15H2,1-11H3
InChI Key	YFYHLVDRBNRNPU-UHFFFAOYSA-N
Canonical SMILES	CC(=O)OCC1C(C(C(C(O1)OCC2C(C(C(C(O2)OC3(C(C(C(O3)COC(=O)C)OC(=O)C)OC(=O)C)COC(=O)C)OC(=O)C)OC(=O)C)OC(=O)C)OC(=O)C)OC(=O)C)OC(=O)C)OC(=O)C
Form	Powder
Purity	≥99%
Identity	Confirmed by NMR/HPLC/MS.
Applications	Raffinose undecaacetate can be used as a standard saccharide to observe and analyze the activity of sugar-metabolizing enzymes in organisms.
Storage	Store at -20°C.