CD BioGlyco
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

1-*O*-Acetyl-2,3,5-tri-*O*-benzyl-D-ribofuranose, Purity ≥95%

Cat. No.: X25-05-ZQ153

Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g

CAS Number: 58381-23-0

Compound CID: 14131030

Synonym: 58381-23-0; 1-*O*-Acetyl-2,3,5-tri-*O*-benzyl-D-ribofuranose; [(3*R*,4*R*,5*R*)-3,4-Bis(phenylmethoxy)-5-(phenylmethoxymethyl)oxolan-2-yl] acetate

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*-benzyl-D-ribofuranose is a ribose derivative with acetyl and benzyl protecting groups, soluble in organic solvents and used as a key intermediate in nucleoside and nucleotide synthesis.
Molecular Weight	462.5
Molecular Formula	$C_{28}H_{30}O_6$
IUPAC Name	(2*R*,3*R*,4*R*,5*R*)-5-(hydroxymethyl)-3-methyl-2-[6-[[3-(trifluoromethyl)phenyl]methylamino]purin-9-yl]oxolane-3,4-diol
InChI	InChI=1S/C19H20F3N5O4/c1-18(30)14(29)12(7-28)31-17(18)27-9-26-13-15(24-8-25-16(13)27)23-6-10-3-2-4-11(5-10)19(20,21)22/h2-5,8-9,12,14,17,28-30H,6-7H2,1H3,(H,23,24,25)/t12-,14-,17-,18-/m1/s1
InChI Key	XASOSWGKKYFVTP-AXYPVASZSA-N
Canonical SMILES	C[C@]1([C@@H]([C@H](O[C@H]1N2C=NC3=C(N=CN=C32)NCC4=CC(=CC=C4)C(F)(F)F)CO)O)O
Source	Chemical synthesis
Form	Solid or powder
Purity	≥95%
Solubility	1-*O*-Acetyl-2,3,5-tri-*O*-benzyl-D-ribofuranose is soluble in water and organic solvents such as DCM, DMF, and DMSO.
Identity	Confirmed by MS/NMR.
Stability	The product is stable for 1 year when stored at the recommended temperature in powder.
Quality Level	Research grade

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Applications	1-*O*-Acetyl-2,3,5-tri-*O*-benzyl-D-ribofuranose is a protected ribose derivative used in the synthesis of modified nucleosides.
Storage	Store at -20°C, protect from light.