

Product Information

UDP-*N*-acetylmannosamine, Purity ≥95%

Cat. No.: X25-05-ZQ766

Size: 10 mg; 25 mg; 50 mg; 100 mg; 500 mg

CAS Number: 26575-17-7

Compound CID: 1167

Synonym: Uridine diphosphate-*N*-acetylgalactosamine; [3-Acetamido-4,5-dihydroxy-6-(hydroxymethyl)oxan-2-yl]

[[5-(2,4-dioxypyrimidin-1-yl)-3,4-dihydroxyoxolan-2-yl]methoxy-hydroxyphosphoryl] hydrogen phosphate

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

Product Information

Description	UDP- <i>N</i> -acetylmannosamine is a nucleotide sugar, water-soluble and involved in bacterial cell wall biosynthesis.
Molecular Weight	607.4
Molecular Formula	C ₁₇ H ₂₇ NO ₁₇ P ₂
IUPAC Name	(2 <i>R</i> ,3 <i>S</i> ,5 <i>R</i>)-5-(6-amino-2-methylpurin-9-yl)-2-(hydroxymethyl)oxolan-3-ol
InChI	InChI=1S/C11H15N5O3/c1-5-14-10(12)9-11(15-5)16(4-13-9)8-2-6(18)7(3-17)19-8/h4,6-8,17-18H,2-3H2,1H3,(H2,12,14,15)/t6-,7+,8+/m0/s1
InChI Key	KSUGGAKGOCLWPT-XLPZGREQSA-N
Canonical SMILES	CC1=NC(=C2C(=N1)N(C=N2)[C@H]3C[C@@H]([C@H](O3)CO)O)N
Source	Chemical synthesis
Form	Solid or powder
Purity	≥95%
Solubility	UDP- <i>N</i> -acetylmannosamine 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
Applications	UDP- <i>N</i> -acetylmannosamine is a nucleotide sugar involved in bacterial cell wall biosynthesis and _N -glycan synthesis in eukaryotes.
Storage	Store at -20°C, protect from light.