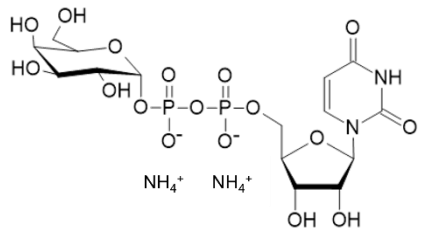


Technical Product Information

Product Name	Uridine 5'-diphospho- α -D-galactose ammonium salt
Synonyms	UDP- α -D-Galactose; UDP-Gal
CAS No.	n/a
Related CAS No.	2956-16-3 (UDP-Gal free acid) 137868-52-1 (UDP-Gal disodium salt)
Formula	$C_{15}H_{22}N_2O_{17}P_2 \cdot 2 NH_4$
Molecular weight	600.38 g/mol
Structure	
Description	UDP-Gal is a nucleotide sugar consisting of the nucleotide uridine 5'-diphosphate and a phosphate-bound monosaccharide, α -D-galactose. Nucleotide sugars are the activated forms of monosaccharides required for cellular metabolism and biosynthesis reactions. UDP-gal serves as a donor substrate for galactosyltransferases in the biosynthesis of galactose-containing glycans and oligosaccharides.
Appearance	Lyophilized white powder, hygroscopic
Purity	> 90 % (HPLC-UV); Product is non-sterile and has not been tested for endotoxins.
Solubility	Soluble in water
Storage and shelf life	The product should be stored sealed and dry at $-20^{\circ}C$. Shelf life has not been determined.
Special instructions	For research use only. Not for use in diagnostic procedures.
Toxicity & Safety	No health hazards have been reported so far. General rules for handling chemicals apply. Avoid skin and eye contact or ingestion. It is recommended to wear protective nitrile gloves and eye protection. Avoid aerosol formation.
Selected References	<p>Rexer, T.; Laaf, D.; Gottschalk, J.; Frohnmeier, H.; Rapp, E.; Elling, L., Enzymatic Synthesis of Glycans and Glycoconjugates. In <i>Advances in Biochemical Engineering/Biotechnology</i>, 2021; Vol. 175, pp 231-280.</p> <p>Mahour, R.; Lee, J. W.; Grimpe, P.; Boecker, S.; Grote, V.; Klamt, S.; Seidel-Morgenstern, A.; Rexer, T. F. T.; Reichl, U., Cell-Free Multi-Enzyme Synthesis and Purification of Uridine Diphosphate Galactose. <i>ChemBioChem</i> 2022, 23 (2).</p>