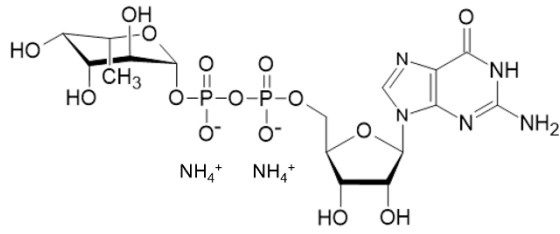


Technical Product Information

Product Name	Guanosine 5'-diphospho-L-fucose ammonium salt
Synonyms	GDP-fucose; GDP-Fuc; GDP-L-fucose
CAS No.	n/a
Related CAS No.	15839-70-0 (GDP-L-Fuc free acid) 148296-47-3 (GDP-L-fucose disodium salt)
Formula	$C_{16}H_{23}N_5O_{15}P_2 \cdot 2 NH_4$
Molecular weight	623.38 g/mol
Structure	
Description	GDP-fucose is a nucleotide sugar consisting of the nucleotide guanosine 5'-diphosphate and a phosphate-bound monosaccharide, L-fucose. Nucleotide sugars are the activated forms of monosaccharides required for cellular metabolism and biosynthesis reactions. GDP-fucose serves as a donor substrate for fucosyltransferases in the biosynthesis of fucose-containing glycans and oligosaccharides.
Appearance	Lyophilized white powder
Purity	> 90 % (HPLC-UV); Product has not been tested for endotoxins.
Solubility	Clear (> 50 mg/mL, H ₂ O)
Storage and shelf life	At -20 °C
Special instructions	For research use only. Not for use in diagnostic procedures.
Toxicity & Safety	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008
Selected References	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.