

sucrose-1,6-α-glucan 3(6)-α-glucosyltransferase

Cat. No. EXWM-2350 Lot. No. (See product label)

Introduction	
Description	The enzyme was characterized from the dental caries bacterium Streptococcus mutans. It transfers glucosyl residues from sucrose to either the 6- or the 3-positions of glucose residues in glucans, producing a highly-branched extracellular D-glucan polymers that promote attachment of the bacteria to teeth. Three types of the enzyme have been described; the insoluble polymers produced by GTF-I and GTF-SI contain 85% $\alpha(1\rightarrow3)$ bonds and 15% $\alpha(1\rightarrow6)$ bonds, while the soluble polymers produced by GTF-S contain only 30% of $\alpha(1\rightarrow3)$ bonds and 70% $\alpha(1\rightarrow6)$ bonds. cf. EC 2.4.1.5, dextransucrase.
Synonyms	water-soluble-glucan synthase (misleading); GTF-I; GTF-S; GTF-SI; sucrose-1,6- α -glucan 3(6)- α -glucosyltransferase; sucrose:1,6- α -D-glucan 3- α - and 6- α -glucosyltransferase; sucrose:1,6-, 1,3- α -D-glucan 3- α - and 6- α -D-glucosyltransferase; sucrose:1,6- α -D-glucan 3(6)- α -D-glucosyltransferase; gtfB (gene name); gtfC (gene name); gtfD (gene name)
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 2.4.1.125
CAS No.	81725-87-3
Reaction	(1) sucrose + [(1→6)- α -D-glucosyl]n = D-fructose + [(1→6)- α -D-glucosyl]n+1; (2) sucrose + [(1→6)- α -D-glucosyl]n = D-fructose + (1→3)- α -D-glucosyl[(1→6)- α -D-glucosyl]n
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Storage and Shipping Information	

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.