

Product Name

Catalog Number Alternate Names

Substrate Specificity

References

Expression Host Species of expressed protein Gene ID

Protein RefSea Uniprot

Region Expressed

Expressed Protein Sequence

Tag(s) Purity (%) **Formulation**

Concentration **SDS-Page Size** SDS-PAGE image Beta - 1,3-galactosyltransferase 5 (B3GALT5)

#0027

Beta-1,3-GalTase 5; Beta3Gal-T5; Beta3GalT5; b3Gal-T5, Beta-3-Gx-T5, UDP-Gal:beta-GlcNAc beta-1,3-galactosyltransferase 5, UDP-galactose:beta-N-

acetylglucosamine beta-1,3-galactosyltransferase 5

Catalyzes the transfer of Gal to GlcNAc-based acceptors with a preference for the

core3 O-linked glycan GlcNAc(beta1,3)GalNAc structure. Can use glycolipid LC3Cer

as an efficient acceptor.

Togavachi, A and Narimatsu, H. (2014) 'UDP-Gal: BetaGlcNAc Beta1.3-

Galactosyltransferase, polypeptide 5 (B3GALT5)' in Handbook of Glycosyltransferases

and Related Genes, 2nd Edition

HEK293 Human 10317 NP 006048

Q9Y2C3 AA 32-310

KEQSFVYKKDGNFLKLPDTDCRQTPPFLVLLVTSSHKQLAERMAIRQTWGKERTVKGK QLKTFFLLGTTSSAAETKEVDQESQRHGDIIQKDFLDVYYNLTLKTMMGIEWVHRFCPQ AAFVMKTDSDMFINVDYLTELLLKKNRTTRFFTGFLKLNEFPIRQPFSKWFVSKSEYPW DRYPPFCSGTGYVFSGDVASQVYNVSKSVPYIKLEDVFVGLCLERLNIRLEELHSQPTF

FPGGLRFSVCLFRRIVACHFIKPRTLLDYWQALENSRGEDCPPV

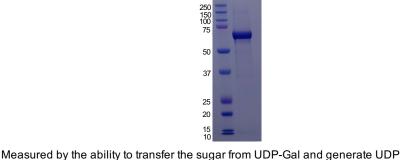
N-terminal 6xHis, GFP

>95%, by SDS-PAGE as visualized by Coomassie Blue Staining

Supplied as a 0.2µm filtered solution in 20mM HEPES pH 7.0 and 100mM NaCl

buffer,, with 10% Glycerol and 0.05 % NaN₃ as preservative.

1 ma/ml ~70 kDa



Activity **Assay Buffer Donor Substrate**

Detection Kit Std Curve

Specific Actifity calculation

GlcNAcb1,3Galb1,4Glc **Acceptor Substate** UDP-Glo™ Glycosyltransferase Assay kit (Promega)

Follow protocol for "Generating a Standard Curve for UDP" in the UDP-Glo™

Glycosyltransferase Assay Technical Manual (Promega) Note: Use Universal buffer

Universal Buffer: 100mM each MES, MOPS, TRIS, pH 7.0, 1mg/ml BSA, 5mM MnCl2

(250mM each MES, MOPS, TRIS, pH 7.5).

Specific Activity (umol/min/mg)= UDP released*(umol) / [Incubation time (min) x amount of enzyme (mg)], Specific Activity was calculated using the standard curve

plotted in GraphPad Prism 6 (GraphPad Software)

Shipping conditions This product is shipped as 0.2µm filtered product on dry ice. Upon receipt, store it

UDP-Gal (0.2mM, Promega)

immediately at the temperature recommended below.

Stability & Storage conditions: 6 months if stored at -80C. Avoid repeated freeze thaws.