

Recombinant human UGT8 protein

Catalog Number: ATGP2414

PRODUCT INFORMATION

Expression system

E.coli

Domain

21-541aa

UniProt No.

Q16880

NCBI Accession No.

NP_003351

Alternative Names

UDP glycosyltransferase 8, CGT, uGT4, UDP-galactose ceramide galactosyltransferase, 2-hydroxyacylsphingosine 1-beta-galactosyltransferase, Ceramide UDP-galactosyltransferase, Cerebroside synthase

PRODUCT SPECIFICATION

Molecular Weight

61.6 kDa (544aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

uDP glycosyltransferase 8, also known as uGT8, catalyzes the transfer of galactose to ceramide, a key enzymatic step in the biosynthesis of galactocerebrosides, which are abundant sphingolipids of the myelin membrane of the central nervous system and peripheral nervous system. Recombinant human uGT8 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSAKIIVP PIMFESHMYI FKTLASALHE RGHHTVFLLS EGRDIAPSNH YSLQRYPGIF
NSTTSDAFLQ SKMRNIFSGR LTAIELFDIL DHYTKNCDLM VGNHALIQGL KKEKFDLLV DPNDMCGFVI AHLLGVKYAV
FSTGLWYPAE VGAPAPLAYV PEFNSLLTDR MNLLQRMKNT GYYLISRLGV SFLVLPKYER IMQKYNLLPE KSMYDLVHGS
SLWMLCTDVA LEFPRPTLPN VVYVGGILTK PASPLPEDLQ RWVNGANEHG FVLVSFGAGV KYLSEDIANK LAGALGRLPQ
KVIWRFSGPK PKNLGNNTKL IEWLPQNDLL GHSKIKAFSL HGGLNSIFET MYHGVPVVGI PLFGDHYDTM TRVQAKGMGI
LLEWKTVTEK ELYEALVKVI NNPSYRQRAQ KLSEIHKDQP GHPVNRTIYW IDYIIRHNGA HHLRAAVHQI SFCQYFLLDI
AFVLLLGAAL LYFLLSWVTK FIYRKIKSLW SRNKHSTVNG HYHNGILNGK YKRNGHIKHE KKVK

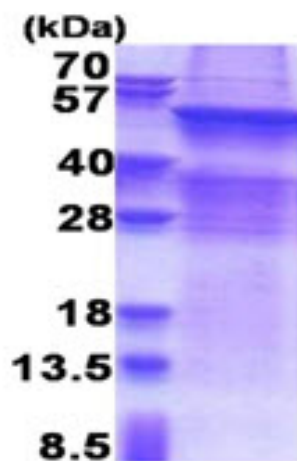
General References

Bosio A., et al. (1996) Genomics. 34:69-75

Kapitonov D.E., et al. (1997) Biochem. Biophys. Res. Commun. 232:449-453

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)