

AR51235PU-S

Human UGT8 / UGT4 (21-541, His-tag) - Purified

Alternate names:

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

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q16880](#)

NCBI:

[NP_003351](#)

GeneID:

[7368](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >85% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea

Description:

Recombinant human UGT8 protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHH SGLVPRGSH MSAKIIIVP PIMFESHMYI FKTLASALHE RGHTTVFLLS
EGRDIAPSNH YSLQRYPGIF NSTTSDAFLQ SKMRNIFSGR LTAIELFDIL DHYTKNCDLM
VGNHALIQGL KKEKFDLLV DPNDMCGFVI AHLLGVKYAV FSTGLWYPAE VGAPAPLAYV
PEFNSLLTDR MNLLQRMKNT GYVLISRLGV SFLVLPKYER IMQKYNLLPE KSMYDLVHGS
SLWMLCTDVA LEFPRPTLPN VVYVGILTK PASPLPEDLQ RWVNGANEHG FVLVSFGAGV
KYLSEDIANK LAGALGRLPQ KVIWRFSGPK PKNLGNNTKL IEWLPQNDLL GHSKIKAFLS
HGGLNSIFET MYHGVVVGVI PLFGDHYDTM TRVQAKGMI LLEWKTVTEK ELYEALVKVI
NNPSYRQRAQ KLSEIHKDQP GHPVNRTIYW IDYIIRHNGA HHLRAAVHQI SFCQYFLLDI
AFVLLLGAAL LYFLLSWVTK FIYRKIKSLW SRNKHSTVNG HYHNGILNGK YKRNGHIKHE KKVK

Molecular weight: 61.6 kDa (544aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Bosio A., et al. (1996) Genomics. 34:69-75 Kapitonov D.E., et al. (1997) Biochem. Biophys. Res. Commun. 232:449-453

Pictures:

