

Recombinant Human UDP glycosyltransferase 8, His-tagged

Cat. No. UGT8-331H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UGT8, 21-541aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	21-541 a.a.
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	61.6 kDa (544aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSAKIIIVP PIMFESHMYI FKTLASALHE RGHHTVFLLS EGRDIAPSNH YSLQRYPGIF NSTTSDAFLQ SKMRNIFSGR LTAIELFDIL DHYTKNCDLM VGNHALIQGL KKEKFDLLL DPNDMCGFVI AHLLGVKYAV FSTGLWYPAE VGAPAPLAYV PEFNSLLTDR MNLLQRMKNT GVYLISRLGV SFLVLPKYER IMQKYNLLPE KSMYDLVHGS SLWMLCTDVA LEFPRPTLPN VVYVGGILTK PASPLPEDLQ RWVNGANEHG FVLVSFGAGV KYLSEDIANK LAGALGRLPQ KVIWRFSGPK PKNLGNNTKL IEWLQPNDLL

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GHSKIKAFLS HGGLNSIFET MYHGVPVVGI PLFGDHYDTM TRVQAKGMGI
LLEWKTVTEK ELYEALVKVI NNPSYRQRAQ KLSEIHKDQP GHPVNRTIYW
IDYIIRHNGA HHLRAAVHQI SFCQYFLLDI AFVLLLGAAL LYFLLSWVTK
FIYRKIKSLW SRNKHSTVNG HYHNGILNGK YKRNGHIKHE KKVK

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name UGT8?UDP glycosyltransferase 8 [?Homo sapiens?(human)]

Official Symbol UGT8

Synonyms UGT8; CGT; UGT4; UDP glycosyltransferase 8; 2-hydroxyacylsphingosine; 1-beta-galactosyltransferase; cerebroside synthase; ceramide UDP-galactosyltransferase; uridine diphosphate glycosyltransferase 8; UDP-galactose ceramide galactosyltransferase; UDP-galactose-ceramide galactosyltransferase; NP_001121646.1; EC 2.4.1.45; NP_003351.2

Gene ID 7368

mRNA Refseq NM_001128174

Protein Refseq NP_001121646

MIM 601291

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UniProt ID	Q16880
Chromosome Location	4q26
Pathway	Cerebroside and sulfatide biosynthesis; Sphingolipid metabolism
Function	2-hydroxyacylsphingosine 1-beta-galactosyltransferase activity; UDP-galactose:glucosylceramide beta-1,4-galactosyltransferase activity

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