
Product Data Sheet

Product Name: UGT8 Human
 Cat. No.: GP22379
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	UDPGlycosyltransferase 8; CGT; UDP-Galactose Ceramide Galactosyltransferase; 2-Hydroxyacylsphingosine1-Beta-Galactosyltransferase; Ceramide UDP-Galactosyltransferase; Cerebroside Synthase;UGT4; UDP-Galactose-Ceramide Galactosyltransferase; Uridine DiphosphateGlycosyltransferase 8; EC 2.4.1.45; EC 2.4.1.		
Amino Acid 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 IEWL PQNDLL GHSKIKAFLS HGGLNSIFET MYHGVPVVGI PLFGDHYDTM TRVQAKGMGI LLEWKTVTEK ELYEALVKVI NNPSYRQRAQ KLSEIHKDQP GHPVNRTIYW IDYIIRHNGA HHLRAAVHQI SFCQYFLLDI AFVLLLGAAL LYFLLSWVTK FIYRKIKSLW SRNKHSTVNG HYHNGILNGK YKRNGHIKHE KKVK.		
Formulation	UGT8 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

Introduction

UDP Glycosyltransferase 8 (UGT8) is a member of the UDP-glycosyltransferase family. UGT8 catalyzes the transfer of galactose to ceramide, a crucial enzymatic step in the biosynthesis of galactocerebrosides, which are abundant sphingolipids of the myelin membrane of the central nervous system and peripheral nervous system.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Background

UGT8 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 544 amino acids (21-541 a.a) and having a molecular mass of 61.6kDa. UGT8 is fused to a 23 amino acid His-tag at N-terminus.

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