

Product datasheet for PH306288

Ceramide glucosyltransferase (UGCG) (NM_003358) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	UGCG MS Standard C13 and N15-labeled recombinant protein (NP_003349)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206288
Predicted MW:	44.9 kDa
Protein Sequence:	>RC206288 protein sequence Red=Cloning site Green=Tags(s)
	<p>MALLDLAEGMAVFGVFLFLVWLMLHFMIIYTRLHLNKKATDKQPYSKLPGVSLKPLKGVDPNLINNL ETFFELDYPKYEVLCCVQDHPAIDVCKLLGKYPNV DARLFIGGKKVGINPKINLMPGYEVAKYDLI WICDSGIRVIPDTLTDVMNQMTKEVGLVHGLPYVADRQGF AATLEQVYFGTSHPRYYISANVTGFKCVTG MSCLMRKDVLDQAGGLIAFAQYIAEDYFMAKAIADRGWRFAMSTQVAMQNSGSYSISQFQSRMIRWTKLR INMLPATIICEPISECFVASLIIGWAAHHVFRWDIMVFFMCHCLAWFIFDYIQLRGVQGGTLCFSKLDYA VAWFIRESMTIYIFLSALWDPTISWRTGRYRLRCGGTAEELDV</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003349</u>
RefSeq Size:	1637
RefSeq ORF:	1182
Synonyms:	GCS; GLCT1
Locus ID:	7357



[View online »](#)

UniProt ID: [Q16739](#), [A0A024R157](#)

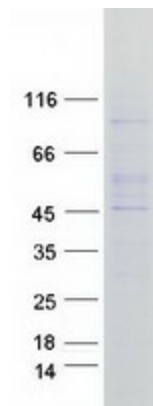
Cytogenetics: 9q31.3

Summary: This gene encodes an enzyme that catalyzes the first glycosylation step in the biosynthesis of glycosphingolipids, which are membrane components containing lipid and sugar moieties. The product of this reaction is glucosylceramide, which is the core structure of many glycosphingolipids. [provided by RefSeq, Dec 2014]

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Product images:



Coomassie blue staining of purified UGCG protein (Cat# [TP306288]). The protein was produced from HEK293T cells transfected with UGCG cDNA clone (Cat# [RC206288]) using MegaTran 2.0 (Cat# [TT210002]).