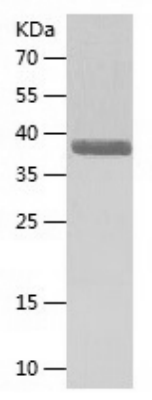
UGCG Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	UGCG, Recombinant Protein
Full Product Name	Recombinant Human UGCG
Product Gene Name	UGCG recombinant protein
Product Synonym Names	Ceramide glucosyltransferase; GCS; GLCT 1; Glucosylceramide synthase; UGCG
Host	E Coli
Form/Format	Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose and 0.06% proclin, pH7.4
Purity/Purification	Greater than 90% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	44,854 Da
Sequence Positions	33-200
3D Structure	ModBase 3D Structure for Q16739
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000 rpm for 1 minute, reconstitute at 200 ug/ml in sterile distilled water by gentle pipetting 2-3 times, don't vortex
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for UGCG recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for UGCG recombinant protein	MBS7615882 is a recombinant protein targeting UGCG. Also known as Recombinant Human UGCG. Host: E Coli.
Other Notes	Small volumes of UGCG recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of UGCG recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UGCG. It may not necessarily be applicable to this product.

NCBI GI #	24270822
NCBI GeneID	7357
NCBI Accession #	AAH38711.1
UniProt Primary Accession #	Q16739
UniProt Secondary Accession #	Q5T258
UniProt Related Accession #	Q16739
NCBI Official Full Name	UDP-glucose ceramide glucosyltransferase
NCBI Official Synonym Full Names	UDP-glucose ceramide glucosyltransferase
NCBI Official Symbol	UGCG
NCBI Official Synonym Symbols	GCS; GLCT1
UniProt Protein Name	Ceramide glucosyltransferase
UniProt Synonym Protein Names	GLCT-1; Glucosylceramide synthase; GCS; UDP-glucose ceramide glucosyltransferase; UDP-glucose:N-acylsphingosine D-glucosyltransferase
Protein Family	Ceramide glucosyltransferase
UniProt Gene Name	UGCG
UniProt Synonym Gene Names	GCS
NCBI Protein Information	ceramide glucosyltransferase
NCBI Summary for UGCG	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]
UniProt Comments for UGCG	Catalyzes the first glycosylation step in glycosphingolipid biosynthesis, the transfer of glucose to ceramide. May also serve as a "flippase".
Research Articles on UGCG	**1.** Studies show a connection between UDP-glucose ceramide glucosyltransferase (UGCG) and multidrug resistance protein 1 (MDR1) overexpression and multidrug resistance development [Review].
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