

Recombinant Human UGCG protein, GST-tagged

Cat. No. UGCG-3581H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UGCG(1 a.a. - 394 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-394 a.a.
Description	Glycosphingolipids (GSLs) are a group of membrane components that contain lipid and sugar moieties. They are present in essentially all animal cells and are believed to have important roles in various cellular processes. UDP-glucose ceramide glucosyltransferase catalyzes the first glycosylation step in glycosphingolipid biosynthesis. The product, glucosylceramide, is the core structure of more than 300 GSLs. UGCG is widely expressed and transcription is upregulated during keratinocyte differentiation.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	71.3 kDa
AA Sequence	MALLDLALEGMAVFGFVFLVLWLMHFMALYYTRLHLNKKATDKQPYSKLPGVSLLKP LKGVDPNLINNLETFFE LDYPKYEVLLCVQDHDDPAIDVCKKLLGKYPNV DARLFIGG KKVGINPKINNLMPGYEVAKYDLIWICDSGIRVI PDTLTDMVNQMTEKVGLVHGLPYV ADRQGFAATLEQVYFGTSHPRYYISANVTGFKCVTGMSCLMRKDVLDQAGG LIAFA

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QYIAEDYFMAKAIADRGWRFAMSTQVAMQNSGSYSISQFQSRMIRWTKLRINMLPA
 TIICEPISECFVAS LIIGWAAHHVFRWDIMVFFMCHCLAWFIFDYIQLRGVQGGTLCF
 SKLDYAVAWFIRESMTIYIFLSALWDPTISW RTGRYRLRCGGTAAEILDV

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

UGCG UDP-glucose ceramide glucosyltransferase [Homo sapiens]

Official Symbol

UGCG

Synonyms

UGCG; UDP-glucose ceramide glucosyltransferase; ceramide glucosyltransferase;
 GCS; glucosylceramide synthase; GLCT-1; UDP-glucose:N-acylsphingosine D-
 glucosyltransferase; GLCT1;

Gene ID

7357

mRNA Refseq

NM_003358

Protein Refseq

NP_003349

MIM

602874

UniProt ID

Q16739

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Chromosome Location	9q31
Pathway	Glycosphingolipid metabolism, organism-specific biosystem; IL2 signaling events mediated by PI3K, organism-specific biosystem; Lactosylceramide biosynthesis, organism-specific biosystem; Lactosylceramide biosynthesis, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem;
Function	ceramide glucosyltransferase activity; transferase activity, transferring glycosyl groups;