

Mouse Ceramide Glucosyltransferase (UGCG) ELISA Kit | UGCG elisa kit

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CATALOG #
AAA332054

REACTIVITY
Mouse

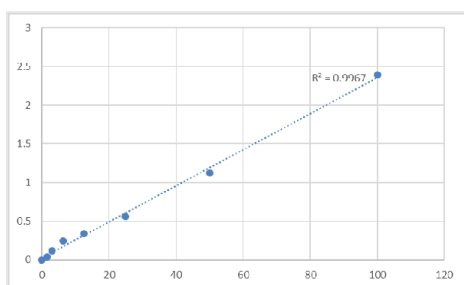
PRODUCT SYNONYMS

Ceramide Glucosyltransferase (UGCG); Mouse Ceramide Glucosyltransferase (UGCG) ELISA Kit; UGCG; GCS; GLCT1; UDP-glucose:N-acylsphingosine D-glucosyltransferase; ceramide glucosyltransferase; glucosylceramide synthase; UGCG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Ceramide glucosyltransferase (UGCG) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse UGCG. No significant cross-reactivity or interference between Mouse UGCG and analogues was observed.
Sequence Length	394
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Mouse Ceramide glucosyltransferase (UGCG) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for UGCG elisa kit	Description: This Mouse Ceramide glucosyltransferase (UGCG) ELISA Kit employs a two-site sandwich ELISA to quantitate UGCG in samples. An antibody specific for UGCG has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any UGCG present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for UGCG is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of UGCG bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: 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 (UGCG) catalyzes the first glycosylation step in GSL biosynthesis. The product, glucosylceramide, is the core structure of more than 300 GSLs. Ichikawa et al. cloned a UGCG cDNA by expressing a human melanoma cell cDNA library in a UGCG-deficient cell line and screening for UGCG complementation. The predicted 394-amino acid UGCG protein has a potential signal-anchor sequence and a single transmembrane domain near the N terminus, and very hydrophobic regions close to the C terminus, which may interact with the membrane.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7106443
NCBI GeneID	22234
NCBI Accession #	NP_035803.1
NCBI GenBank Nucleotide #	NP_035803.1
UniProt Accession #	O88693
NCBI Official Full Name	ceramide glucosyltransferase
NCBI Official Synonym Full Names	UDP-glucose ceramide glucosyltransferase
NCBI Official Symbol	Ugcg
NCBI Official Synonym Symbols	Ugcgl; C80537; Epcs21; GlcT-1; AU043821
NCBI Protein Information	ceramide glucosyltransferase
UniProt Protein Name	Ceramide glucosyltransferase
UniProt Gene Name	Ugcg
UniProt Synonym Gene Names	GCS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.