

Human UDP Glucose Ceramide Glucosyltransferase (UGCG) ELISA Kit | UGCG elisa kit

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CATALOG #
AAA140713

REACTIVITY
Human

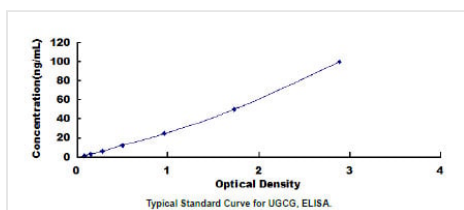
PRODUCT SYNONYMS

UDP Glucose Ceramide Glucosyltransferase (UGCG); Human UDP Glucose Ceramide Glucosyltransferase (UGCG) ELISA Kit; GCS; GLCT-1; Glucosylceramide Synthase; N-acylsphingosine D-glucosyltransferase; UGCG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity for detection of UGCG. 100% cross-reactivity of UGCG was observed among human, mouse and rat.
Sequence Length	394
Samples	Tissue homogenates, cell lysates and other biological fluids. due to the 97% homology of the sequence among different species, the kit can be used to detect human, mouse and rat samples
Assay Type	Quantitative Sandwich
Detection Range	1.56-100ng/mL
Sensitivity	< 0.53ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level UGCG were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level UGCG were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for UGCG elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of UGCG in tissue homogenates, cell lysates and other biological fluids. Due to the 97% homology of the sequence among different species, the kit can be used to detect human, mouse and rat samples. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to UGCG. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to UGCG. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain UGCG, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of UGCG in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for UGCG elisa kit	Enzyme & Kinase; Metabolic pathway; Endocrinology

NCBI AND UNIPROT INFORMATION

NCBI GI #	24270822
NCBI GeneID	7357
Molecular Weight	44,854 Da
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
NCBI Protein Information	ceramide glucosyltransferase
UniProt Protein Name	Ceramide glucosyltransferase
UniProt Gene Name	UGCG
UniProt Synonym Gene Names	GCS
UniProt Entry Name	CEGT_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/udp-glucose-ceramide-glucosyltransferase-ugcg/140713>