

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

Rat UDP Glucose Ceramide Glucosyltransferase (UGCG) ELISA Kit

CATALOG #
AAA137545

REACTIVITY
Rat

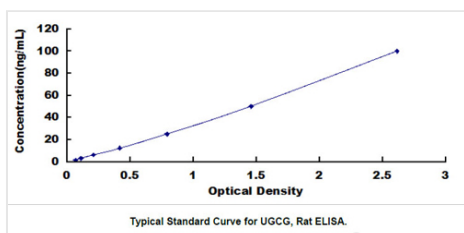
PRODUCT SYNONYMS

UDP Glucose Ceramide Glucosyltransferase (UGCG); Rat UDP Glucose Ceramide Glucosyltransferase (UGCG) ELISA Kit; UGCG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of UDP Glucose Ceramide Glucosyltransferase (UGCG) No significant cross-reactivity or interference between UDP Glucose Ceramide Glucosyltransferase (UGCG) and analogues was observed.
Sequence Length	394
Samples	Tissue homogenates, Cell lysates and other biological fluids
Assay Type	Sandwich
Detection Range	1.563-100ng/mL The standard curve concentrations used for the ELISA's were 100ng/mL, 50ng/mL, 25ng/mL, 12.5ng/mL, 6.25ng/mL, 3.125ng/mL, 1.563ng/mL
Sensitivity	Typically less than 0.65ng/mL.
Organism Species	Rattus norvegicus (Rat)
ELISA Type	Sandwich
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level UDP Glucose Ceramide Glucosyltransferase (UGCG) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level UDP Glucose Ceramide Glucosyltransferase (UGCG) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: $CV < 10\%$ 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	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to UDP Glucose Ceramide Glucosyltransferase (UGCG). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to UDP Glucose Ceramide Glucosyltransferase (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 UDP Glucose Ceramide Glucosyltransferase (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 UDP Glucose Ceramide Glucosyltransferase (UGCG) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	24270822
NCBI GeneID	7357
UniProt Accession #	Q16739; Q5T258
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; GLCT-1; glucosylceramide synthase; UDP-glucose:N-acylsphingosine D-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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/udp-glucose-ceramide-glucosyltransferase-ugcg/137545>