

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

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CATALOG #
AAA68747

REACTIVITY
Rat

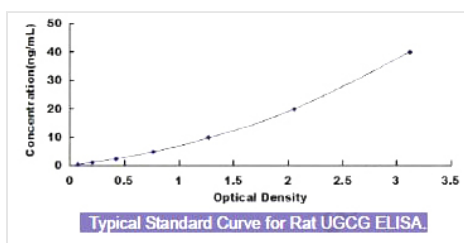
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of UGCG. No significant cross-reactivity or interference between UGCG and analogues was observed.
Sequence Length	394
Samples	Tissue homogenates, cell lysates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.625-40ng/mL
Sensitivity	<0.216ng/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%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for UGCG elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of UGCG in rat tissue homogenates, cell lysates or other biological fluids. 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 preparation 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	25742623
NCBI GeneID	83626
NCBI Accession #	NP_113983.1
NCBI GenBank Nucleotide #	NM_031795.2
UniProt Accession #	Q9R0E0; O55149
Molecular Weight	44,823 Da
NCBI Official Full Name	ceramide glucosyltransferase
NCBI Official Synonym Full Names	UDP-glucose ceramide glucosyltransferase
NCBI Official Symbol	Ugcg
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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/udp-glucose-ceramide-glucosyltransferase-ugcg/68747>