

Human Galactosylceramidase ELISA Kit | GALC elisa kit

Human Galactosylceramidase (GALC) (Sandwich ELISA) ELISA Kit

CATALOG #
AAA189948

REACTIVITY
Human

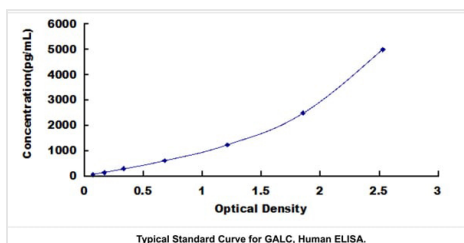
PRODUCT SYNONYMS

Galactosylceramidase; Human Galactosylceramidase (GALC) (Sandwich ELISA) ELISA Kit; Galactocerebrosidase; Krabbe Disease; Galactocerebroside beta-galactosidase; Galactosylceramide beta-galactosidase; ELISA Kit for Galactosylceramidase (GALC); GALC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of GALC. No significant cross-reactivity or interference between GALC and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	78-5,000pg/mL
Sensitivity	< 31pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GALC 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 GALC were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	4 degree C for 1 month/ -20 degree C for long-term(within shelf life). Shelf life is one year

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GALC elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to GALC. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to GALC. 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 GALC, 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 GALC in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of GALC in human tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for GALC elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	83281450
NCBI GeneID	2581
NCBI Accession #	NP_000144.2
NCBI GenBank Nucleotide #	NM_000153.3
UniProt Accession #	P54803; Q8J030; B4DKE8; B4DYN1; B4DZJ8; B7Z7Z2; J3KPP8
Molecular Weight	685
NCBI Official Full Name	galactocerebrosidase isoform a
NCBI Official Synonym Full Names	galactosylceramidase
NCBI Official Symbol	GALC
NCBI Protein Information	galactocerebrosidase; GALCERase; galactosylceraminidase; galactocerebroside beta-galactosidase; galactosylceramide beta-galactosidase
UniProt Protein Name	Galactocerebrosidase
UniProt Gene Name	GALC
UniProt Synonym Gene Names	GALCERase
UniProt Entry Name	GALC_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.