

Rat UDP-Glucumno-Syltransferase 1 (UGT1) ELISA Kit | UGT1 elisa kit

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CATALOG #
AAA330157

REACTIVITY
Rat

PRODUCT SYNONYMS

UDP-Glucumno-Syltransferase 1 (UGT1); Rat UDP-Glucumno-Syltransferase 1 (UGT1) ELISA Kit; UGT1A1; GNT1; HUG-BR1; UDPGT; UGT1; UGT1A; UDP glucuronosyltransferase 1A1; UDP glycosyltransferase 1 family; polypeptide A1; bilirubin UDP-glucuronosyltransferase 1-1; bilirubin UDP-glucuronosyltransferase is; UGT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Rat UDP-glucumno-syltransferase 1 (UGT1) ELISA Kit has high sensitivity and excellent specificity for detection of Rat UGT1A1. No significant cross-reactivity or interference between Rat UGT1A1 and analogues was observed.
Sequence Length	535
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. Rat UDP-glucumno-syltransferase 1 (UGT1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for UGT1 elisa kit	Description: This Rat UDP-glucumno-syltransferase 1 (UGT1) ELISA Kit employs a two-site sandwich ELISA to quantitate UGT1A1 in samples. An antibody specific for UGT1A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any UGT1A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for UGT1A1 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 UGT1A1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: UGT1A10 encodes a UDP-glucuronosyltransferase, an enzyme of the glucuronidation pathway that transforms small lipophilic molecules, such as steroids, bilirubin, hormones, and drugs, into water-soluble, excretable metabolites. This gene is part of a complex locus that encodes several UDP-glucuronosyltransferases. The locus includes thirteen unique alternate first exons followed by four common exons. Four of the alternate first exons are considered pseudogenes. Each of the remaining nine 5' exons may be spliced to the four common exons, resulting in nine proteins with different N-termini and identical C-termini. Each first exon encodes the substrate binding site, and is regulated by its own promoter. The enzyme encoded by this gene has glucuronidase activity on mycophenolic acid, coumarins, and quinolines.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	28849913
NCBI GeneID	24861
NCBI Accession #	NP_036815.1
NCBI GenBank Nucleotide #	NP_036815.1
UniProt Accession #	Q64550
NCBI Official Full Name	UDP-glucuronosyltransferase 1-1
NCBI Official Synonym Full Names	UDP glucuronosyltransferase family 1 member A1
NCBI Official Symbol	Ugt1a1
NCBI Official Synonym Symbols	Ugt1; Udpgt; UDPGT 1-1
NCBI Protein Information	UDP-glucuronosyltransferase 1-1
UniProt Protein Name	UDP-glucuronosyltransferase 1-1
UniProt Gene Name	Ugt1a1
UniProt Synonym Gene Names	Ugt1; UDPGT 1-1; UGT1*1; UGT1-01; UGT1.1
UniProt Entry Name	UD11_RAT

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.