Cysteinyl Leukotriene Receptor 2 (CYSLTR2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cysteinyl Leukotriene Receptor 2 (CYSLTR2), ELISA Kit
Full Product Name	Human Cysteinyl Leukotriene Receptor 2 ELISA Kit
Product Gene Name	CYSLTR2 elisa kit
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	39,635 Da
OMIM	605666
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for CYSLTR2 elisa kit	Signal Transduction
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CYSLTR2 elisa kit	MBS727811 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cysteinyl Leukotriene Receptor 2 (CYSLTR2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CYSLTR2. The ELISA analytical biochemical technique of the MBS727811 kit is based on CYSLTR2 antibody-CYSLTR2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYSLTR2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYSLTR2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CYSLTR2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYSLTR2. It may not necessarily be applicable to this product.

NCBI GI #	9966851
NCBI GeneID	57105
NCBI Accession #	NP_065110.1
UniProt Secondary Accession #	Q9HCQ2
UniProt Related Accession #	Q9NS75
GenBank Nucleotide #	NM_020377.2

NCBI Official Full Name	cysteinyl leukotriene receptor 2
NCBI Official Synonym Full Names	cysteinyl leukotriene receptor 2
NCBI Official Symbol	CYSLTR2
NCBI Official Synonym Symbols	HG57; CYSLT2; HPN321; CYSLT2R; KPG_011; hGPCR21; PSEC0146
UniProt Protein Name	Cysteinyl leukotriene receptor 2
UniProt Synonym Protein Names	G-protein coupled receptor GPCR21; hGPCR21; G-protein coupled receptor HG57; HPN321
Protein Family	Cysteinyl leukotriene receptor
UniProt Gene Name	CYSLTR2
UniProt Synonym Gene Names	CYSLT2; CYSLT2R; PSEC0146; CysLTR2; hGPCR21
UniProt Entry Name	CLTR2_HUMAN
NCBI Protein Information	cysteinyl leukotriene receptor 2; G protein-coupled receptor; G-protein coupled receptor HG57; G-protein coupled receptor GPCR21; cysteinyl leukotriene CysLT2 receptor
NCBI Summary for CYSLTR2	The cysteinyl leukotrienes LTC4, LTD4, and LTE4 are important mediators of human bronchial asthma. Pharmacologic studies have determined that cysteinyl leukotrienes activate at least 2 receptors, the protein encoded by this gene and CYSLTR1. This encoded receptor is a member of the superfamily of G protein-coupled receptors. It seems to play a major role in endocrine and cardiovascular systems. [provided by RefSeq, Jul 2008]
UniProt Comments for CYSLTR2	CYSLTR2: Receptor for cysteinyl leukotrienes. The response is mediated via a G-protein that activates a phosphatidylinositol- calcium second messenger system. Stimulation by BAY u9773, a partial agonist, induces specific contractions of pulmonary veins and might also have an indirect role in the relaxation of the pulmonary vascular endothelium. The rank order of affinities for the leukotrienes is LTC4 = LTD4 >> LTE4. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, integral; Receptor, GPCR; GPCR, family 1; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 13q14.2 Cellular Component: plasma membrane; integral to membrane Molecular Function: protein binding; cysteinyl leukotriene receptor activity; leukotriene receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; positive regulation of angiogenesis; immune response
Research Articles on CYSLTR2	**1.** Suggest that endothelial and nonendothelial CysLT2R niches have separate roles in mediating inflammatory responses in ischemic/perfusion injury.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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