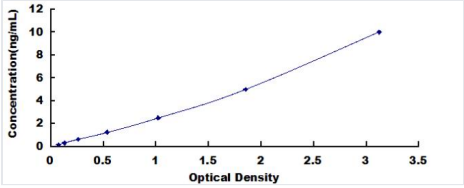
5-Hydroxytryptamine Receptor 4 (HTR4) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	5-Hydroxytryptamine Receptor 4 (HTR4), ELISA Kit
Full Product Name	Human 5-Hydroxytryptamine Receptor 4 (HTR4) ELISA Kit
Product Gene Name	HTR4 elisa kit
Product Synonym Names	5-HT4; 5-HT4R; Serotonin Receptor 4; 5-HT4 Receptor
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.063ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	46,907 Da
OMIM	602164
3D Structure	ModBase 3D Structure for Q13639
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for HTR4 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to HTR4. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to HTR4. 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 HTR4, 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 HTR4 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of HTR4 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.
Searchable Terms for HTR4 purchase	MBS459996 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the 5-Hydroxytryptamine Receptor 4 (HTR4) 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 HTR4. The ELISA analytical biochemical technique of the MBS459996 kit is based on HTR4 antibody-HTR4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect HTR4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, HTR4. 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(%).



Typical Testing Data/Standard Curve (for reference only) of HTR4 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HTR4. It may not necessarily be applicable to this product.

NCBI GI #	11321563
NCBI GeneID	3360
NCBI Accession #	NP_000861.1
UniProt Primary Accession #	Q13639
UniProt Secondary Accession #	Q546Q1; Q684M0; Q712M9; Q96KH9; Q96KI0; Q9H199; Q9NY73; Q9UBM6; Q9UBT4; Q9UE22; C4WYH4
UniProt Related Accession #	Q13639
GenBank Nucleotide #	NM_000870.6
NCBI Official Full Name	5-hydroxytryptamine receptor 4 isoform b
NCBI Official Synonym Full Names	5-hydroxytryptamine receptor 4
NCBI Official Symbol	HTR4
NCBI Official Synonym Symbols	5-HT4; 5-HT4R
UniProt Protein Name	5-hydroxytryptamine receptor 4
UniProt Synonym Protein Names	Serotonin receptor 4
Protein Family	5-hydroxytryptamine receptor
UniProt Gene Name	HTR4
UniProt Synonym Gene Names	5-HT-4; 5-HT4
NCBI Protein Information	5-hydroxytryptamine receptor 4
NCBI Summary for HTR4	This gene is a member of the family of serotonin receptors, which are G protein coupled receptors that stimulate cAMP production in response to serotonin (5-hydroxytryptamine). The gene product is a glycosylated transmembrane protein that functions in both the peripheral and central nervous system to modulate the release of various neurotransmitters. Multiple transcript variants encoding proteins with distinct C-terminal sequences have been described. [provided by RefSeq, May 2010]
UniProt Comments for HTR4	This is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. The activity of this receptor is mediated by G proteins that stimulate adenylate cyclase.
Research Articles on HTR4	**1.** found that testosterone, but not estradiol, correlated negatively with global 5-HT4R levels suggesting that men with high levels of testosterone have higher cerebral serotonergic tonus.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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