

ARG81474 Human Mast Cell Tryptase ELISA Kit

Package: 96 wells
Store at: 4°C

Component

| Cat. No. | Component Name | Package | Temp |
|--------------|---------------------------------------|----------------------|---|
| ARG81474-001 | Antibody-coated microplate | 8 X 12 strips | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG81474-002 | Standard | 2 X 10 ng/vial | 4°C |
| ARG81474-003 | Standard/Sample diluent | 30 ml (Ready to use) | 4°C |
| ARG81474-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG81474-005 | Antibody diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81474-006 | HRP-Streptavidin concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG81474-007 | HRP-Streptavidin diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81474-008 | 25X Wash buffer | 20 ml | 4°C |
| ARG81474-009 | TMB substrate | 10 ml (Ready to use) | 4°C (Protect from light) |
| ARG81474-010 | STOP solution | 10 ml (Ready to use) | 4°C |
| ARG81474-011 | Plate sealer | 4 strips | Room temperature |

Summary

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| Product Description | ARG81474 Human Mast Cell Tryptase ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Mast Cell Tryptase in serum, plasma (heparin, EDTA) and cell culture supernatants. |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Specificity | This kit detects all three tryptase types; A, B1 and B2. There is no detectable cross-reactivity with other relevant proteins. |
| Target Name | Mast Cell Tryptase |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm. |
| Sensitivity | 78 pg/ml |
| Sample Type | Serum, plasma (heparin, EDTA) and cell culture supernatants. |
| Standard Range | 156 - 10000 pg/ml |
| Sample Volume | 100 µl |

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| Precision | Intra-Assay CV: 7.3% Inter-Assay CV: 8.8% |
| Alternate Names | TPSAB1: Tryptase Alpha/Beta 1; TPSB1; TPS1; TPS2; Tryptase Alpha/Beta-1 TPSB2: Tryptase Beta 2; Tryptase Beta-2; EC 3.4.21.59; TPS2;Tryptase Beta 2 (Gene/Pseudogene) |

Application Instructions

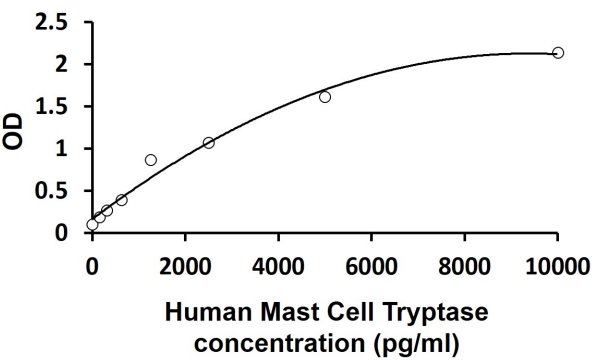
| | |
|------------|-----------|
| Assay Time | ~ 5 hours |
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Properties

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| Form | 96 well |
| Storage instruction | Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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|----------------|--|
| Gene Symbol | TPSAB1; TPSB2 |
| Gene Full Name | Tryptase Alpha/Beta 1; Tryptase beta 2 |
| Background | <p>Tryptases comprise a family of trypsin-like serine proteases, the peptidase family S1. Tryptases are enzymatically active only as heparin-stabilized tetramers, and they are resistant to all known endogenous proteinase inhibitors. Several tryptase genes are clustered on chromosome 16p13.3. These genes are characterized by several distinct features. They have a highly conserved 3' UTR and contain tandem repeat sequences at the 5' flank and 3' UTR which are thought to play a role in regulation of the mRNA stability. These genes have an intron immediately upstream of the initiator Met codon, which separates the site of transcription initiation from protein coding sequence. This feature is characteristic of tryptases but is unusual in other genes. The alleles of this gene exhibit an unusual amount of sequence variation, such that the alleles were once thought to represent two separate genes, alpha and beta 1. Beta tryptases appear to be the main isoenzymes expressed in mast cells; whereas in basophils, alpha tryptases predominate. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders. [provided by RefSeq, Jul 2008]</p> |
| Function | <p>Tryptase is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. May play a role in innate immunity. Isoform 2 cleaves large substrates, such as fibronectin, more efficiently than isoform 1, but seems less efficient toward small substrates.</p> |
| Highlight | <p>Related products: Mast Cell Tryptase antibodies; Mast Cell Tryptase ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData</p> |



ARG81474 Human Mast Cell Tryptase ELISA Kit standard curve image

ARG81474 Human Mast Cell Tryptase ELISA Kit results of a typical standard run with optical density reading at 450 nm.