Trypsinogen Activation (TAP) ELISA Kit for Sheep

PRODUCT OVERVIEW

Product Name	Trypsinogen Activation Peptide (TAP), ELISA Kit
Full Product Name	Sheep Trypsinogen Activation Peptide ELISA Kit
Product Gene Name	TAP elisa kit
Species Reactivity	Sheep
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	26,558 Da
OMIM	167800
3D Structure	ModBase 3D Structure for P07477
Related Product Information for TAP elisa kit	MBS043005 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Trypsinogen Activation Peptide (TAP) 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 TAP. The ELISA analytical biochemical technique of the MBS043005 kit is based on TAP antibody-TAP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TAP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TAP. 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 TAP 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 TAP. It may not necessarily be applicable to this product.

NCBI GI #	136408
NCBI GeneID	5644
NCBI Accession #	P07477.1
UniProt Primary Accession #	P07477
UniProt Secondary Accession #	Q5NV57; Q7M4N3; Q7M4N4; Q92955; Q9HAN4; Q9HAN5; Q9HAN6; Q9HAN7; A1A509; A6NJ71; B2R5I5
UniProt Related Accession #	P07477
NCBI Official Full Name	Trypsin-1
NCBI Official Synonym Full Names	protease, serine, 1 (trypsin 1)
NCBI Official Symbol	PRSS1
NCBI Official Synonym Symbols	TRP1; TRY1; TRY4; TRYP1
UniProt Protein Name	Trypsin-1
UniProt Synonym Protein Names	Beta-trypsin; Cationic trypsinogen; Serine protease 1; Trypsin I
Protein Family	Basic helix-loop-helix neural transcription factor

UniProt Gene Name	PRSS1
UniProt Synonym Gene Names	TRP1; TRY1; TRYP1
UniProt Entry Name	TRY1_HUMAN
NCBI Protein Information	trypsin-1; beta-trypsin; trypsinogen 1; trypsinogen A; digestive zymogen; cationic trypsinogen; nonfunctional trypsin 1
NCBI Summary for TAP	This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is secreted by the pancreas and cleaved to its active form in the small intestine. It is active on peptide linkages involving the carboxyl group of lysine or arginine. Mutations in this gene are associated with hereditary pancreatitis. This gene and several other trypsinogen genes are localized to the T cell receptor beta locus on chromosome 7. [provided by RefSeq, Jul 2008]
UniProt Comments for TAP	trypsin 1: Has activity against the synthetic substrates Boc-Phe- Ser-Arg-Mec, Boc-Leu-Thr-Arg-Mec, Boc-Gln-Ala-Arg-Mec and Boc-Val- Pro-Arg-Mec. The single-chain form is more active than the two- chain form against all of these substrates. Defects in PRSS1 are a cause of pancreatitis (PCTT). A disease characterized by the presence of calculi in pancreatic ducts. It causes severe abdominal pain attacks. Belongs to the peptidase S1 family. Protein type: Secreted, signal peptide; Secreted; EC 3.4.21.4; Protease Chromosomal Location of Human Ortholog: 7q34 Cellular Component: extracellular region Molecular Function: serine-type endopeptidase activity; metal ion binding Biological Process: extracellular matrix disassembly; extracellular matrix organization and biogenesis; vitamin metabolic process; cobalamin metabolic process; digestion; proteolysis; water-soluble vitamin metabolic process Disease: Trypsinogen Deficiency; Pancreatitis, Hereditary
Research Articles on TAP	**1.** the p.N43S mutation in the SPINK1 gene, accelerated the onset of HP in the presence of the p.R122H mutation in the CT gene.
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