CTRC Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CTRC, Lysate
Full Product Name	Human CTRC Protein Lysate
Product Gene Name	CTRC lysate
Product Synonym Names	CTRC; CLCR; ELA4
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	29,484 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (15764938..15773153). Location: 1p36.21
OMIM	601405
3D Structure	ModBase 3D Structure for Q99895
Related Product Information for CTRC lysate	Human CTRC Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of CTRC lysate 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 CTRC purchase	MBS8410080 is a lysate targeting CTRC. Also known as Human CTRC Protein Lysate. Host: Human.

ADDITIONAL DETAILS

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

NCBI GI #	62526043
NCBI GeneID	11330
NCBI Accession #	NP_009203
UniProt Primary Accession #	Q99895
UniProt Secondary Accession #	O00765; Q9NUH5; A8K082
UniProt Related Accession #	Q99895
GenBank Nucleotide #	NM_007272
NCBI Official Full Name	chymotrypsin-C preproprotein
NCBI Official Synonym Full Names	chymotrypsin C (caldecrin)
NCBI Official Symbol	CTRC
NCBI Official Synonym Symbols	CLCR; ELA4
UniProt Protein Name	Chymotrypsin-C

UniProt Synonym Protein Names	Caldecrin
Protein Family	Capsule polysaccharide export inner-membrane protein
UniProt Gene Name	CTRC
UniProt Synonym Gene Names	CLCR
UniProt Entry Name	CTRC_HUMAN
NCBI Protein Information	chymotrypsin-C; caldecrin; elastase 4; elastase IV; serum calcium decreasing factor
NCBI Summary for CTRC	This gene encodes a member of the peptidase S1 family. The encoded protein is a serum calcium-decreasing factor that has chymotrypsin-like protease activity. Alternatively spliced transcript variants have been observed, but their full-length nature has not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for CTRC	CTRC: Has chymotrypsin-type protease activity and hypocalcemic activity. Genetic variations in CTRC can predispose to chronic pancreatitis by diminishing its protective trypsin-degrading activity. Belongs to the peptidase S1 family. Elastase subfamily. Protein type: Protease; EC 3.4.21.2 Chromosomal Location of Human Ortholog: 1p36.21 Molecular Function: peptidase activity; serine-type endopeptidase activity Biological Process: proteolysis Disease: Pancreatitis, Hereditary
Research Articles on CTRC	**1.** long-range electrostatic attraction toward substrates of concentrated negative charge governs substrate discrimination, which explains CTRC selectivity in regulating active digestive enzyme levels
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