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Product datasheet for PH302806

CTRB1 (NM_001906) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CTRB1 MS Standard C13 and N15-labeled recombinant protein (NP_001897)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202806
Predicted MW:	27.9 kDa
Protein Sequence:	>RC202806 protein sequence Red=Cloning site Green=Tags(s) MAFLWLLSCWALLGTTFGCGVPAIHPVLSGLSRIVNGEDAVPGSWPWQVSLQDKTGFHFCGGSLISEDWV VTAAHCGVRTSDVVVAGEFDQGSDEENIQVLKIAKVFKNPKFSILTVNNDITLLKLATPARFSQTVSAVC LPSADDDFPAGTLCATTGWGKTKYNANKTPDKLQQAALPLLSNAECKKSWGRRITDVMICAGASGVSSCM GDSGGPLVCQKDGAWTLVGIVSWGSDTCSTSSPGVYARVTKLIPWVQKILAAN TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001897
RefSeq Size:	873
RefSeq ORF:	789
Synonyms:	CTRB
Locus ID:	1504
UniProt ID:	P17538

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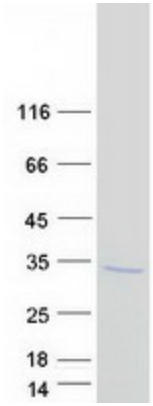
Cytogenetics: 16q23.1

Summary: This gene encodes a member of the serine protease family of enzymes and forms a principal precursor of the pancreatic proteolytic enzymes. The encoded preproprotein is synthesized in the acinar cells of the pancreas and secreted into the small intestine where it undergoes proteolytic activation to generate a functional enzyme. This CTRB1 gene is located head-to-head with the related CTRB2 gene. Some human populations have an alternate haplotype which inverts a 16.6 Kb region containing portions of intron 1, exon 1, and the upstream sequence of the CTRB1 and CTRB2 genes. In this inversion haplotype exon 1 and flanking sequence is swapped in CTRB1 and CTRB2. This inversion is associated with differential gene expression and increased risk for chronic pancreatitis. The GRCh38 assembly represents the minor allele for SNP rs8048956 of the CTRB1 gene. SNP rs8048956 in intron 1 of the CTRB2 gene is diagnostic for this inversion. This CTRB1 gene encodes distinct isoforms, some or all of which may undergo similar processing to generate the mature protein. [provided by RefSeq, Jan 2021]

Protein Families: Druggable Genome, Protease, Secreted Protein, Transmembrane

Product images:



Coomassie blue staining of purified CTRB1 protein (Cat# [TP302806]). The protein was produced from HEK293T cells transfected with CTRB1 cDNA clone (Cat# [RC202806]) using MegaTran 2.0 (Cat# [TT210002]).