THG1L Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	THG1L, Lysate
Full Product Name	Human THG1L Protein Lysate
Product Gene Name	THG1L lysate
Product Synonym Names	THG1L; hTHG1; ICF45; IHG-1
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C This protein lysate can be reconsituted using SDS Sample Buffer. Once reconsituted, aliquot and store any remaining material at -20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	34 kDa (292aa), confirmed by MALDI-TOF
3D Structure	ModBase 3D Structure for Q9NWX6
Species	Human
Related Product Information for THG1L lysate	Human THG1L Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells.
Other Notes	Small volumes of THG1L 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 THG1L purchase	MBS8428515 is a lysate targeting THG1L. Also known as Human THG1L Protein Lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for THG1L. It may not necessarily be applicable to this product.

NCBI GI #	89242148
NCBI GeneID	54974
NCBI Accession #	NP_060342
UniProt Primary Accession #	Q9NWX6
UniProt Secondary Accession #	Q53G12; Q7L5R3; Q9H0S2; D3DQJ5
UniProt Related Accession #	Q9NWX6
GenBank Nucleotide #	NM_017872
NCBI Official Full Name	probable tRNA(His) guanylyltransferase isoform 1
NCBI Official Synonym Full Names	tRNA-histidine guanylyltransferase 1 like
NCBI Official Symbol	THG1L
NCBI Official Synonym Symbols	ICF45; IHG-1; hTHG1
NCBI Protein Information	probable tRNA(His) guanylyltransferase

NCBI Summary for THG1L	The protein encoded by this gene is a mitochondrial protein that is induced by high levels of glucose and is associated with diabetic nephropathy. The encoded protein appears to increase mitochondrial biogenesis, which could lead to renal fibrosis. Another function of this protein is that of a guanyltransferase, adding GMP to the 5' end of tRNA(His). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015]
Research Articles on THG1L	**1.** Study proposes that homozygosity for the p.Val55Ala mutation in tRNA-histidine guanylyltransferase 1 like (THG1L) is the cause of the abnormal mitochondrial network in the patient fibroblasts, likely by interfering with THG1L activity towards MFN2.
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