Active Recombinant Human MGLL protein, His-tagged (Bioactivity Validated)

Cat. No. MGLL-17H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MGLL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	MGLL is membrane-associated member of the serine hydrolase superfamily. MGLL functions together with hormone-sensitive lipase (LIPE) to hydrolyze intracellular triglyceride stores in adipocytes and other cells to fatty acids and glycerol. MGLL may also complement lipoprotein lipase (LPL) in completing hydrolysis of monoglycerides resulting from degradation of lipoprotein triglycerides. It is most abundantly expressed in skeletal muscle and adipose tissue.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol
Bio-activity	Specific activity is >170 units/mg, and is defined as the amount of enzyme that hydrolyze 1.0 umole of p-nitrophenyl butyrate to p-nitrophenol per minute at pH 7.5 at 25centigrade.
Molecular Mass	36.4 kDa(333aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH METGPEDPSS MPEESSPRRT PQSIPYQDLP HLVNADGQYL FCRYWKPTGT PKALIFVSHG AGEHSGRYEELARMLMGLDL

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	LVFAHDHVGH GQSEGERMVV SDFHVFVRDV LQHVDSMQKD YPGLPVFLLG HSMGGAIAIL TAAERPGHFA GMVLISPLVLANPESATTFK VLAAKVLNLV LPNLSLGPID SSVLSRNKTE VDIYNSDPLI CRAGLKVCFG IQLLNAVSRV ERALPKLTVP FLLLQGSADRLCDSKGAYLL MELAKSQDKT LKIYEGAYHV LHKELPEVTN SVFHEINMWV SQRTATAGTA SPP
Purity	> 85% by SDS - PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	MGLL monoglyceride lipase [Homo sapiens]
Official Symbol	MGLL
Synonyms	MGLL; monoglyceride lipase; HU K5; MGL; monoacylglycerol lipase; HUK5; MAGL; HU-K5;
Gene ID	11343
mRNA Refseq	NM_001003794
Protein Refseq	NP_001003794
MIM	609699

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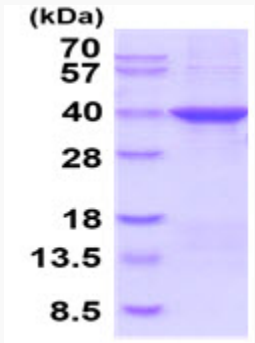
UniProt ID	Q99685
Chromosome Location	3p13-q13.33
Pathway	Acylglycerol degradation, organism-specific biosystem; Acylglycerol degradation, conserved biosystem; Arachidonate production from DAG, organism-specific biosystem; Effects of PIP2 hydrolysis, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem;
Function	acylglycerol lipase activity; carboxylesterase activity; hydrolase activity; lipid binding; lysophospholipase activity; protein homodimerization activity;
	 15% SDS-PAGE (3ug)

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