

Product datasheet for PH318358

Monoacylglycerol Lipase (MGLL) (NM_007283) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MGLL MS Standard C13 and N15-labeled recombinant protein (NP_009214)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218358
Predicted MW:	34.1 kDa
Protein Sequence:	>RC218358 representing NM_007283 Red=Cloning site Green=Tags(s) METGPEDPSSMPEESSRRTQPQIPYQDLPHLVNADGQYLFCRYWKPTGTPKALIFVSHGAGEHSGRYEE LARMLMGLDLLVFAHDHVGHGQSEGERMVVSDHFVVRDVLQHVDSMQKDYPGLPVFLLGHSMGGAIAIL TAAERPGHFAGMYLISPLVLANPESATTFKVLAAKVLNLVLPNLSLGPIDSSVLSRNKTEVDIYNSDPLI CRAGLKVCFGIQLLNAVSVERALPKLTVPFLLLQGSADRLCDSKGAYLLMELAKSQDKTLKIYEGAYHV LHKELPEVTNSVFHEINMWVSQRTATAGTASPP 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_009214
RefSeq Size:	4617
RefSeq ORF:	939
Synonyms:	HU-K5; HUK5; MAGL; MGL
Locus ID:	11343



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UniProt ID: [Q99685](#), [A0A0C4DFN3](#)

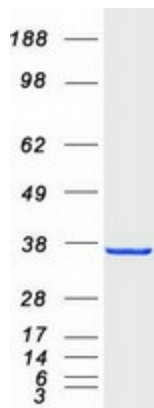
Cytogenetics: 3q21.3

Summary: This gene encodes a serine hydrolase of the AB hydrolase superfamily that catalyzes the conversion of monoacylglycerides to free fatty acids and glycerol. The encoded protein plays a critical role in several physiological processes including pain and nociception through hydrolysis of the endocannabinoid 2-arachidonoylglycerol. Expression of this gene may play a role in cancer tumorigenesis and metastasis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]

Protein Families: Druggable Genome, Protease

Protein Pathways: Glycerolipid metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified MGLL protein (Cat# [TP318358]). The protein was produced from HEK293T cells transfected with MGLL cDNA clone (Cat# [RC218358]) using MegaTran 2.0 (Cat# [TT210002]).