

MGLL Protein, Human (His)

Cat. No.:	HY-P701985
Synonyms:	MGLL; Monoglyceride lipase; MGL; HU-K5; Lysophospholipase homolog; Lysophospholipase-like; Monoacylglycerol lipase; MAGL
Species:	Human
Source:	E. coli
Accession:	Q99685 (P2-P303)
Gene ID:	11343
Molecular Weight:	Approximately 35.2 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM HEPES, pH 7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	MGLL, a pivotal enzyme in lipid metabolism, serves as a key catalyst in the conversion of monoacylglycerides into free fatty acids and glycerol, as evidenced by its documented roles in various studies. Beyond its involvement in lipid metabolism, MGLL exhibits the ability to hydrolyze the endocannabinoid 2-arachidonoylglycerol, thereby contributing significantly to the intricate regulation of endocannabinoid signaling and influencing nociception and the perception of pain. Notably, MGLL plays a crucial role in regulating the levels of fatty acids, which act as essential signaling molecules with implications for diverse cellular functions. This enzyme's impact extends to cancer biology, where it is implicated in the promotion of cancer cell migration, invasion, and overall tumor growth, as indicated by various studies.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA