Monoglyceride lipase Protein, Rat (P.pastoris, His)

Cat. No.:	HY-P71755
Synonyms:	Mgll; Mgl2; Monoglyceride lipase; MGL; Monoacylglycerol lipase; MAGL
Species:	Rat
Source:	P. pastoris
Accession:	Q8R431 (1M-303P)
Gene ID:	29254
Molecular Weight:	Approximately 35.5 kDa

PROPERTIES

AA Sequence	M P E A S S P R R T P Q N V P Y Q D L P H L V N A D G Q Y L F C R Y W K P S G T P K A L I F V S H G A G E H C G R Y D E L A Q M L K R L D M L V F A H D H V G H G Q S E G E R M V V S D F Q V F V R D L L Q H V N T V Q K D Y P E V P V F L L G H S M G G A I S I L A A A E R P T H F S G M I L I S P L I L A N P E S A S T L K V L A A K L L N F V L P N I S L G R I D S S V L S R N K S E V D L Y N S D P L I C H A G V K V C F G I Q L L N A V S R V E R A M P R L T L P F L L L Q G S A D R L C D S K G A Y L L M E S S P S Q D K T L K M Y E G A Y H V L H K E L P E V T N S V L H E I N T W V S H R I A V A G A R C L P
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Monoglyceride lipase (MGLL) is a pivotal enzyme with diverse functions in lipid metabolism and signaling pathways. It plays a central role in converting monoacylglycerides into free fatty acids and glycerol. Additionally, MGLL is involved in the hydrolysis of the endocannabinoid 2-arachidonoylglycerol, contributing to the regulation of endocannabinoid signaling and influencing nociperception and pain perception. Beyond its role in lipid metabolism, MGLL is implicated in the modulation of fatty acid levels, acting as signaling molecules that facilitate cancer cell migration, invasion, and tumor growth (By

similarity). The multifunctional nature of Monoglyceride lipase underscores its importance in various physiological processes, including lipid homeostasis, pain regulation, and potential implications in cancer progression.

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