cGB-PDE Protein, Mouse (Myc, His)

Cat. No.:	HY-P71591
Synonyms:	Pde5a; Pde5; cGMP-specific 3',5'-cyclic phosphodiesterase; EC 3.1.4.35; cGMP-binding cGMP-specific phosphodiesterase; CGB-PDE
Species:	Mouse
Source:	E. coli
Accession:	Q8CG03 (154D-320N)
Gene ID:	242202
Molecular Weight:	Approximately 29 kDa

PROPERTIES

AA Sequence	D V T A L C H K I F L H I H G L I S A D R Y S L F L V C E D S S K D K F L I S R L F D V A E G S T L E E A S N N C I R L E W N K G I V G H V A A F G E P L N I K D A Y E D P R F N A E V D Q I T G Y K T Q S I L C M P I K N H R E E V V G V A Q A I N K K S G N G G T F T E K D E K D F A A Y L A F C G I V L H N A Q L Y E T S L L E N K R N
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against solution in 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
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	The cGB-PDE protein serves a vital function in signal transduction by modulating the intracellular levels of cyclic nucleotides. This phosphodiesterase plays a specific role in catalyzing the hydrolysis of cGMP, converting it to 5'-GMP. Notably, cGB-PDE is particularly involved in the regulation of cgenerated by nitric oxide.

Caution: Product has not been fully validated for medical applications. For research use only.

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