

PRDX5/Peroxiredoxin-5 Protein, Mouse (His)

Cat. No.:	HY-P73375
Synonyms:	Peroxiredoxin-5; PLP; Prx-V; Prdx5; AOEB166
Species:	Mouse
Source:	E. coli
Accession:	P99029 (M49-L210)
Gene ID:	54683
Molecular Weight:	Approximately 18.5 kDa

PROPERTIES

AA Sequence	<p> M A P I K V G D A I P S V E V F E G E P G K K V N L A E L F K G K K G V L F G V P G A F T P G C S K T H L P G F V E Q A G A L K A K G A Q V V A C L S V N D V F V I E E W G R A H Q A E G K V R L L A D P T G A F G K A T D L L L D D S L V S L F G N R R L K R F S M V I D N G I V K A L N V E P D G T G L T C S L A P N I L S Q L </p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	<p>PRDX5/Peroxiredoxin-5 Protein operates as a thiol-specific peroxidase, catalyzing the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. This protein plays a crucial role in cellular protection against oxidative stress by detoxifying various peroxides, showcasing its significance in maintaining cellular redox balance. Additionally, PRDX5 acts as a sensor of hydrogen peroxide-mediated signaling events, suggesting its involvement in modulating cellular responses to oxidative stress. The dual functionality of PRDX5 underscores its importance in cellular</p>
------------	---

defense mechanisms and its potential contribution to regulatory pathways associated with redox signaling.

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