

Recombinant Mouse Selenoprotein P/SEPP1 protein (His Tag)

Catalog Number: PDMM100197

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species	Mouse
Source	HEK293 Cells-derived Mouse Selenoprotein P protein Glu20–Asn380, with an C-terminal His
Calculated MW	39.6 kDa
Observed MW	50-60 kDa
Accession	P70274
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data

SDS-PAGE analysis of Mouse Selenoprotein P/SEPP1 proteins, 2µg/lane of Recombinant Mouse Selenoprotein P/SEPP1 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 50-60 KD.

Background

Selenoprotein P (SeP) is an extracellular, monomeric glycoprotein containing up to 10 selenocysteine residues in the polypeptide chain. It is ubiquitously expressed in mammalian tissues, and in human plasma it accounts for at least 40% of the total selenium concentration. SeP binds to heparin and cell membranes, and is associated with endothelial cells. SeP in human plasma protects against peroxynitrite-mediated oxidation and reduces phospholipid hydroperoxide in vitro, in accordance with the presumption that it has a function as an extracellular oxidant defense. Immunochemical assays have demonstrated that its concentration in plasma varies much with selenium intake, but other factors also have an influence.

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