

## Recombinant Mouse HP Protein (His Tag)

**Catalog Number:** PDEM100255

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

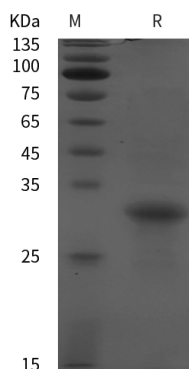
### Description

<b>Species</b>	Mouse
<b>Source</b>	E.coli-derived Mouse HP protein Ala118-Cys281, with an N-terminal His
<b>Calculated MW</b>	17.9 kDa
<b>Observed MW</b>	22 kDa
<b>Accession</b>	Q61646
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95% as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 10 EU/mg of the protein as determined by the LAL method
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Reconstitution</b>	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 HP proteins, 2 µg/lane of Recombinant Mouse HP proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 22 kDa.

### Background

Haptoglobin is a 406 aminoacids (aa) protein that in humans is encoded by the HP gene. This gene encodes a preproprotein that is processed into alpha (aa 19-160) and beta (aa 162-406) chains that combine as a tetramer to produce haptoglobin. Haptoglobin captures, and combines with free plasma hemoglobin to allow hepatic recycling of heme iron and to prevent kidney damage.

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