

For Research Use Only

Recombinant Mouse Haptoglobin protein (His Tag)



Catalog Number: Eg1197

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Mouse Haptoglobin protein Val19-Asn347 (Accession# Q61646) with a His tag at the C-terminus.

GeneID:

15439

Accession:

Q61646

Predicted Molecular Mass:

37.9 kDa

SDS-PAGE:

45-55 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Haptoglobin (HP), also named as zonulin, is a plasma glycoprotein and belongs to the peptidase S1 family. As a kind of acute-phase response protein, serum Hp is mainly synthesized by hepatocytes and is widely distributed in the circulation in humans. The main physiological function of serum Hp is binding free hemoglobin released from red blood cell lysis and protecting tissues and vessels from oxidative damage. The level of Hp is a useful biomarker for some diseases diagnosis, such as Hepatocellular carcinoma, Pancreatic cancer, Type 2 diabetes mellitus, Diabetes kidney disease, and so on.

References

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3. Wang S, et al. (2019). *Cardiovascular Diabetolog.* 18(1).
4. Moriwaki K, et al. (2006). *Japan Journal of Molecular Tumor Marker Research*. 21(11):2803-2808.
5. Dalal K, et al. (2019). *Clinica Chimica Acta*. 495:309-317.
6. Shinton N K, et al. (1965). *Journal of Clinical Pathology*. 18(1):114-118.
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Synonyms

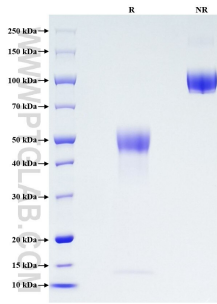
Hp, HP 1

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse Haptoglobin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.