

For Research Use Only

Recombinant Rat Hemopexin protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3258

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE
>90%,
SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90%, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Rat Hemopexin protein Asn24-Gln460 (Accession# P20059) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
58917

Accession:
P20059

Predicted Molecular Mass:
75.2 kDa

SDS-PAGE:
80-90 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

Hemopexin (HPX) is a plasma protein with the highest binding affinity for heme (hemoglobin) of any known protein. It is predominantly expressed in the liver and is an acute phase response protein whose synthesis is induced following inflammation. The primary function of HPX is to serve as the main carrier of heme transport in plasma, preventing heme-mediated oxidative stress and loss of heme-bound iron by binding to heme. HPX plays a role in a variety of hemolysis-associated disorders including malaria, hemolytic uremic syndrome, and dengue hemorrhagic fever.

References

1. Fiorito V, Tolosano E. Int J Mol Sci. 2022;23(2):997.
2. Li Y, et al. Front Immunol. 2023;14:1274333.
3. Tolosano E, Altruda F. DNA Cell Biol. 2002;21(4):297-306.

Synonyms

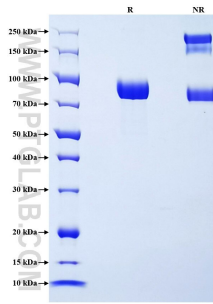
Hpx, HX

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

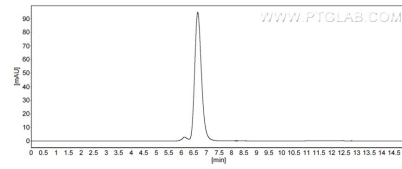
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Purity of Recombinant Rat Hemopexin 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.



The purity of Rat Hemopexin was greater than 90% as determined by SEC-HPLC.