

Haptoglobin Protein, Mouse, Recombinant (His)

General Information

Synonyms: Hp;Haptoglobin

Protein Construction: 19-347 aa

Species: Mouse

Expression Host: E. coli

Accession: Q61646

Molecular Weight: 40.9 kDa (predicted)

AA Sequence:

VELGNDAMDFEDDSCPKPEIANGYVEHLVRYRCRQFYRLRAEGDGVYTLNDEKQWVNTVAGEKLPECEAV
CGKPKHPVDQVQRIIGGSM DAKGSFPWQAKMISRHLTTGATLISDQWLLTTAKNLFNLHSETASAKDITPTL
TLYVGKNQLVEIEKVVLPNHSVVDIGLIKLRVLTERTVMPICLP SKDYIAPGRVGYVSGWGRNANFRFTDR
LK YVMLPVADQDKCVVHYENSTVPEKKNLTSPVGVQPILNEHTFCAGLTKYQEDTCYGDAGSAFAIHDMEED
TWYAAGILSFDKSCAVAEYGVYVRATDLKDWVQETMAKN

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

As a result of hemolysis, hemoglobin is found to accumulate in the kidney and is secreted in the urine. Haptoglobin captures, and combines with free plasma hemoglobin to allow hepatic recycling of heme iron and to prevent kidney damage. Haptoglobin also acts as an antioxidant, has antibacterial activity and plays a role in modulating many aspects of the acute phase response. Hemoglobin/haptoglobin complexes are rapidly cleared by the macrophage CD163 scavenger receptor expressed on the surface of liver Kupfer cells through an endocytic lysosomal degradation pathway.

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