Certificate of Analysis & Data Sheet

**Catalog Number: 230-10314-100**

RayBiotech
Empowering your proteomics

# Recombinant Human Myoglobin Protein, Transfected HEK293 Cell Lysate

## Source

| | |
|---|---|
| **Species** | Human |
| **Accession Number** | P02144 |
| **Gene Symbol** | MYG |
| **Expressed Region** | Gly2-Gly154 |
| **Synonyms** | Myoglobin |

## Preparation

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| **Expression System** | Human embryonic kidney 293 (HEK293) cells |
| **Tag** | N-terminal his-tag |
| **Purity** | Unpurified cell lysate. HEK293 cells transfected with expression vectors harboring target gene were harvested and washed with PBS twice. The cell pastes were re-suspended with ice-cold PBS containing mammalian cell protease inhibitor cocktail and further lysed with freeze-thaw cycles. After clarifying with 20,000 g centrifugation at 4°C for 30 min, the lysate was aliquoted, lyophilized, and stored at -80°C immediately. Protein concentration was determined by BCA kit (Thermo Scientific, Inc.) using BSA as protein standard. The gene overexpression in lysate was confirmed by Western blotting using anti-His tag antibody and/or target-specific antibodies and the lysate derived from HEK293 cells transfected with the empty expression vector was used as a negative control. |
| **Molecular Weight** | Recombinant protein product has a calculated molecular mass of 7. The actual molecular weight may increase slightly due to the potential post-translational modifications (PTMs). |

## Protein Specifications

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| **Format** | Lyophilized powder |
| **Formulation** | Lyophilized from a 0.2 um filtered solution in PBS (pH 7.4) containing mammalian cell protease inhibitor cocktail |
| **Concentration** | Determined by BCA protein assay |
| **Reconstitution** | Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1 mg/mL with sterile deionized water. |

## Shipping

Ice packs. Including one vial of HEK293 cell lysate transfected with empty expression vector.

## Storage/Stability

Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store desiccated below -20 °C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile

conditions at -20 °C.  For long term storage, it is recommended to make appropriate aliquots and store at -80 °C. Avoid repeated freeze-thaw cycles.