

Product datasheet

Recombinant human EPO protein ab215737

Description

| | | |
|--|---|--|
| Product name | Recombinant human EPO protein | |
| Biological activity | Determined by a cell proliferation assay using TF-1 cells. The expected ED ₅₀ for this effect is 0.8-1.0 ng/ml. | |
| Purity | > 90 % SDS-PAGE. >90% by HPLC. | |
| Expression system | CHO cells | |
| Accession | P01588 | |
| Protein length | Full length protein | |
| Animal free | No | |
| Nature | Recombinant | |
| Species | Human | |
| Sequence | APPRLICDSRVLERYLLEAKEAENITGCAEHCSLNENI TVPDTKVNFYA WKRMEVGQQAVEVWQGLALLSEAVLRGQALLVNSS QPWEPLQLHVDKAVS GLRSLTLLRALGAQKEAISPPDAASAAPLRTITADTFR KLFRVYSNFLR GCLKLYTGEACRTGDR | |
| Predicted molecular weight | 18 kDa | |
| Amino acids | 28 to 193 | |
| Additional sequence information | This product is the mature full length protein from aa 28 to 193. The signal peptide is not included. | |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab215737** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| | |
|-------------------------|---|
| Applications | Functional Studies HPLC SDS-PAGE |
| Form | Lyophilised |
| Additional notes | As a result of glycosylation, Recombinant Human EPO migrates with an apparent molecular mass of 37.0 kDa by SDS-PAGE gel, under reducing and non-reducing conditions. |

Preparation and Storage

| | |
|------------------------------|---|
| Stability and Storage | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C. pH: 7.5 Constituent: 0.16% Sodium phosphate This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| Reconstitution | Centrifuge vial prior to opening. Reconstitute in water to 0.1-1.0 mg/ml. Do not vortex. Store at 2°C to 8°C for 1 week, or prepare for extended storage. |

General Info

| | |
|------------------------------|---|
| Relevance | Human erythropoietin is member of the EPO/TPO family and encodes a secreted, glycosylated cytokine hormone composed of four alpha helical bundles. The protein is found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. This protein also has neuroprotective activity against a variety of potential brain injuries and antiapoptotic functions in several tissue types. It is produced by kidney or liver of adult mammals and by liver of fetal or neonatal mammals. |
| Cellular localization | Secreted |

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors