

Recombinant Human Novel Erythropoiesis Stimulating Protein

#R00609

Size: 5 µg/100 µg/500 µg

Stability & Storage

- Please use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- Lyophilized protein should be stored at ≤ -20°C, stable for 12 months after receipt.
- Reconstituted protein solution can be stored at 2-8°C for 1-2 weeks.
- Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

NESP is a 165-amino acid protein that differs from recombinant human erythropoietin in containing 5 N-linked oligosaccharide chains, whereas recombinant human erythropoietin contains 3 chains. The 2 additional N-glycosylation sites result from amino acid substitutions in the erythropoietin peptide backbone. The approximate molecular weight of darbepoetin alfa is 37,000 daltons. As was found in animal models, NESP exhibits a half-life approximately 3 times longer than that of rHuEPO.

AA Sequence

Ala28-Asp192, Accession # P01588, Ala57Asn, His59Thr, Pro114Val, Trp115Asn, Pro117Thr

Reconstitution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Reconstitute in sterile distilled water to a concentration of 0.1-1.0 mg/mL. Please aliquot the

reconstituted solution to minimize freeze-thaw cycles.

Product Specification

Species	Human
Source	CHO Cells
Molecular Weight	Recombinant Human NESP Protein, a monomer, containing 165 amino acid residues, has a predicted molecular mass of approximately 18.2 kDa. As a result of glycosylation, the recombinant protein migrates with an apparent molecular mass of 37-40 kDa in SDS-PAGE under reducing conditions.
Purity	> 97% by SDS-PAGE gel and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity was

determined by Normocyth-aemic mice and was found to be 1.0×10^6 IU/mg.

Formulation

Lyophilized from a 0.22 μ m filtered solution of in PB, NaCl with Tween-80. See CoA for details.

Endotoxin

Less than 0.1 EU/ μ g of rHuNESP as determined by LAL test.

Shipping

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