

Recombinant Human TPO

Cat. #: STP-010

Product Specifications

- Expression of Human Proteins in Human Cells
- Extremely Low Endotoxin Level
- High Purity
- Animal Free and Xeno Free
- Tag Free

Protein Description

Recombinant human thrombopoietin expressed in engineered human cells. TPO belongs to the EPO/TPO protein family. TPO protein is an 80 to 85 kDa monomeric glycoprotein. TPO is primarily produced in the liver and regulates the formation of megakaryocytes and platelets. C terminal domain glycosylation is thought to be important for the secretion of TPO from cells and for survival of TPO in the circulation.

References

Kitamura, T, et al. (1989) J. Cell Physiol. 140, 323-334.

Kaushansky, K, (1998) NEJM 339, 746-754.

Source: Derived from human cells

Size: 10 µg

Shipping: Ambient temperature

Structure: Glycosylated monomer

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.5 EU/µg

Molecular Weight: 80-85 kDa

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein

Activity Assay

Activity was measured by its ability to stimulate the proliferation of human Mo7e cells.

Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Stability and Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80° C as supplied. 1 month, 2 to 8° C under sterile conditions after reconstitution. 3 months, -20 to -80° C under sterile conditions after reconstitution.

