

Recombinant Protein Technical Manual Recombinant Mouse Thrombopoietin/TPO Protein (His Tag) RPES3187

Product Data:

Product SKU: RPES3187

Species: Mouse

Size: $10 \mu g$

Expression host: Human Cells

Uniprot: P40226

UKAFAIA	
Protein	

Molecular Mass:	36.4 kDa	
AP Molecular Mass:	8010 kDa	
Tag:	N-6His	
Bio-activity:		
Purity:	> 95 % as determined by SDS-PAGE	
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.	
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.	
Formulation:	Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4.	
Reconstitution:	Please refer to the printed manual for detailed information.	
Application:		
Synonyms:	Thrombopoietin;C-mpl ligand;Megakaryocyte colony-stimulating factor;Megakaryocyte growth and development factor;Myeloproliferative leukemia virus oncogene ligand;THPO	

Sequence: Ser22-Thr356

Background:

Thrombopoietin (TPO) is a glycoprotein hormone which belongs to the EPO/TPO family. It produced by the liver and kidney which regulates the production of platelets. Mature mouse Tpo shares 71% and 81% aa sequence homology with human and rat Tpo, respectively. It is an 80-85 kDa protein that consists of an N-terminal domain with homology to Erythropoietin (Epo) and a C-terminal domain that contains multiple N-linked and O-linked glycosylation sites. TPO stimulates the production and differentiation of megakaryocytes, the bone marrow cells that bud off large numbers of platelets. Lineage-specific cytokine affects the proliferation and maturation of megakaryocytes from their committed progenitor cells. It acts at a late stage of megakaryocyte development. It may be the major physiological regulator of circulating platelets.