



Recombinant Protein Technical Manual
Recombinant Human PROS1/Protein S Protein (His
Tag)
RPES0217

Product Data:

Product SKU: RPES0217

Size: 100µg

Species: Human

Expression host: HEK293 Cells

Uniprot: P07225

Protein Information:

Molecular Mass: 74.1 kDa

AP Molecular Mass: 69-89 kDa

Tag: C-His

Bio-activity:

Purity: > 95 % as determined by reducing 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 sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: PROS;Protein S;PS21;PS22;PS23;PS24;PS25;PSA;THPH5;THPH6

Immunogen Information:

Sequence: Met 1-Ser676

Background:

PROS1, also known as protein S, is a vitamin K-dependent plasma protein that functions as a cofactor for the anticoagulant protease, activated protein C (APC) to inhibit blood coagulation. PROS1 has two isoforms: a free, functionally active form and an inactive form complexed with C4b-binding protein. Besides its anticoagulant function, PROS1 also acts as an agonist for the tyrosine kinase receptors Tyro3, Axl, and Mer. The endothelium expresses Tyro3, Axl, and Mer and produces protein S. The interaction of protein S with endothelial cells and particularly its effects on angiogenesis have not yet been analyzed.