



Recombinant Protein Technical Manual

Recombinant Mouse PDGFR α /CD140a Protein (His Tag)

RPES2526

Product Data:

Product SKU: RPES2526

Size: 10 μ g

Species: Mouse

Expression host: Human Cells

Uniprot: P26618

Protein Information:

Molecular Mass: 56.9 kDa

AP Molecular Mass: 8020kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per μ g 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: Platelet-derived growth factor receptor alpha; PDGF-R-alpha; Alpha platelet-derived growth factor receptor; Alpha-type platelet-derived growth factor receptor; CD140a; Pdgfra

Immunogen Information:

Sequence: Leu25-Glu524

Background:

Platelet-derived growth factor receptors (PDGFR) are cell surface tyrosine kinase receptors for members of the platelet-derived growth factor (PDGF) family. The PDGF family consists of PDGF-A, -B, -C and -D, which form either homo- or heterodimers (PDGF-AA, -AB, -BB, -CC, -DD). The four PDGFs are inactive in their monomeric forms. PDGFs bind to the protein tyrosine kinase receptors PDGF receptor- α and - β . These two receptor isoforms dimerize upon binding the PDGF dimer, leading to three possible receptor combinations, namely - $\alpha\alpha$, - $\beta\beta$ and - $\alpha\beta$. PDGFR α and PDGFR β are members of the class III RTK family. Inappropriate PDGFR α and PDGFR β signaling has been linked to a number of proliferative disorders.