

Product datasheet for **TP727485**

Pdgfra Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse PDGF R $\hat{1}\pm$ /PDGFRA/CD140a (C-Fc)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Leu25-Glu524
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Mouse Platelet-derived growth factor receptor alpha is produced by our Mammalian expression system and the target gene encoding Leu25-Glu524 is expressed with a Fc tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	18595
UniProt ID:	<u>P26618</u>
Synonyms:	Platelet-derived growth factor receptor alpha; PDGF-R-alpha; PDGFR-alpha; Alpha platelet-derived growth factor receptor; CD140 antigen-like family member A; Platelet-derived growth factor alpha receptor; CD140a; PDGFRA
Summary:	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- $\hat{1}\pm$ and - $\hat{1}^2$. These two receptor isoforms dimerize upon binding the PDGF dimer, leading to three possible receptor combinations, namely - $\hat{1}\pm\hat{1}\pm$, - $\hat{1}^2\hat{1}^2$ and - $\hat{1}\pm\hat{1}^2$. PDGFR $\hat{1}\pm$ and PDGFR $\hat{1}^2$ are members of the class III RTK family. Inappropriate PDGFR $\hat{1}\pm$ and PDGFR $\hat{1}^2$ signaling has been linked to a number of proliferative disorders.


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