

Recombinant Active Human PDGFR alpha (G680R) Mutant Protein, GST-tagged

Cat. No. PDGFRA-37H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PDGFR α (G680R) (550-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Insect Cells
ProteinLength	550-end a.a.
Description	<p>This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies suggest that this gene plays a role in organ development, wound healing, and tumor progression. Mutations in this gene have been associated with idiopathic hypereosinophilic syndrome, somatic and familial gastrointestinal stromal tumors, and a variety of other cancers.</p>
Molecular Mass	Approx 95 kDa
Purity	> 90%
Stability	One year at -70 centigrade from data of shipment.

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Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 $\mu\text{g}/\mu\text{L}$
Storage Buffer	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 25% glycerol.
Shipping	Dry ice

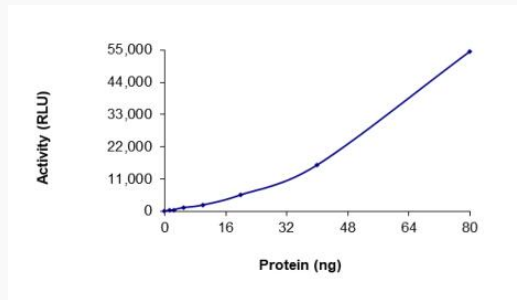
GENE INFORMATION

Gene Name	PDGFRA platelet derived growth factor receptor alpha [Homo sapiens (human)]
Official Symbol	PDGFRA
Synonyms	PDGFRA; platelet derived growth factor receptor alpha; CD140A; PDGFR2; PDGFR-2; platelet-derived growth factor receptor alpha; CD140 antigen-like family member A; CD140a antigen; PDGF-R-alpha; alpha-type platelet-derived growth factor receptor; platelet-derived growth factor receptor 2; platelet-derived growth factor receptor, alpha polypeptide; EC 2.7.10.1
Gene ID	5156
mRNA Refseq	NM_006206
Protein Refseq	NP_006197
MIM	173490

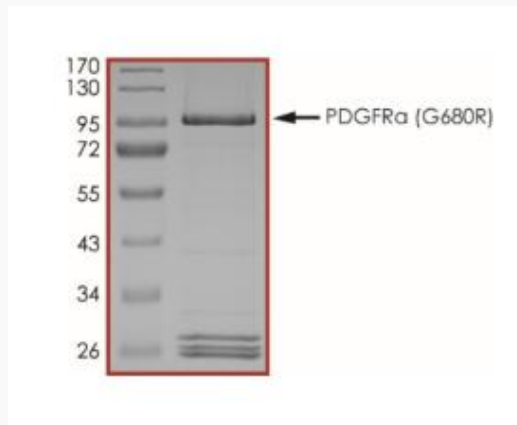
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UniProt ID
P16234
Specific Activity


The specific activity of PDGFR α (G680R) was determined to be 1.9 nmol/min/mg as per activity assay protocol.

Purity


The purity of PDGFR α (G680R) was determined to be >90% by densitometry.

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