



## Synonym

PDGFRA,CD140A,PDGFR2,RHEPDGFRA,MGC74795

## Source

Human PDGF R alpha, His Tag(PDA-H52H7) is expressed from human 293 cells (HEK293). It contains AA Gln 24 - Ala 528 (Accession # [P16234-1](#)).

Predicted N-terminus: Gln 24

## Molecular Characterization

PDGFRA(Gln 24 - Ala 528)  
P16234-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 58.4 kDa. The protein migrates as 66-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu\text{g}$  by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu\text{m}$  filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

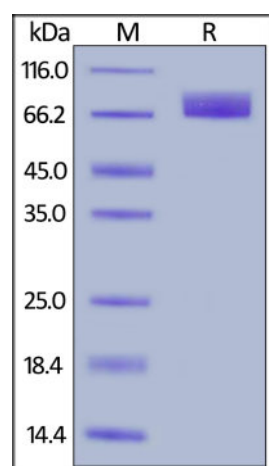
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human PDGF R alpha, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

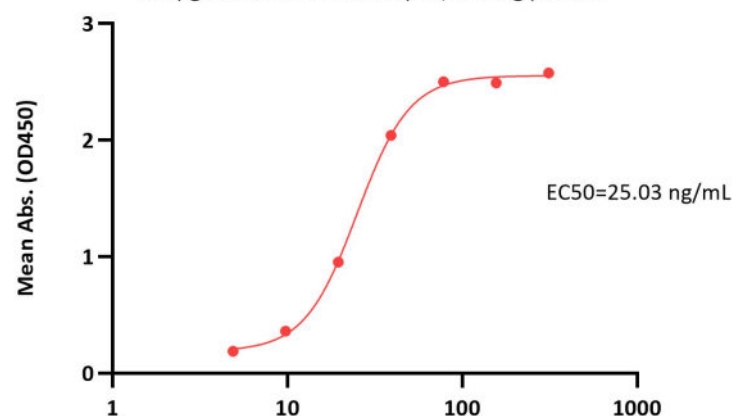
Discounts, Gifts,  
and more!





HHV-5 (strain AD169) Glycoprotein H&L&O, Twin-Strep Tag&Tag Free&His Tag ELISA

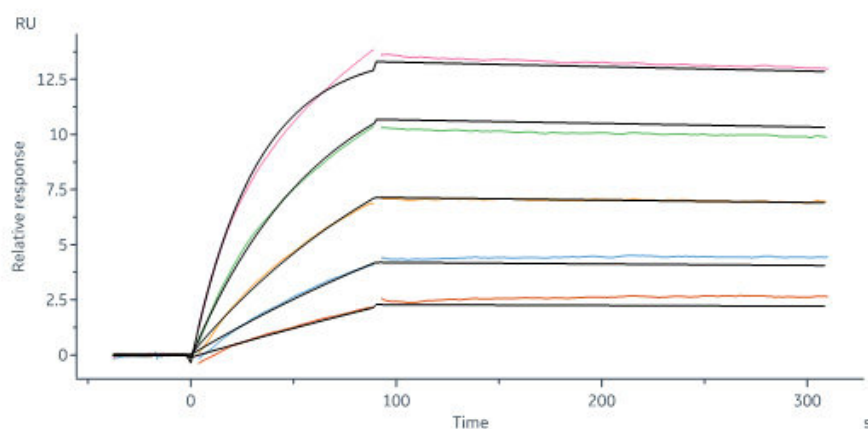
0.5 µg of Human PDGF R alpha, His Tag per well



HHV-5 (strain AD169) Glycoprotein H&L&O, Twin-Strep Tag&Tag Free&His Tag Conc. (ng/mL)

Immobilized Human PDGF R alpha, His Tag (Cat. No. PDA-H52H7) at 5 µg/mL (100 µL/well) can bind HHV-5 (strain AD169) gH&gL&gO, Twin-Strep Tag&Tag Free&His Tag (Cat. No. GLO-H5283) with a linear range of 5-39 ng/mL (Routinely tested).

### Bioactivity-SPR



Human PDGF R alpha, His Tag (Cat. No. PDA-H52H7) immobilized on CM5 Chip can bind HHV-5 (strain AD169) gH&gL&gO, Twin-Strep Tag&Tag Free&His Tag (Cat. No. GLO-H5283) with an affinity constant of 0.155 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

### Background

PDGFRA (platelet-derived growth factor receptor A), also termed PDGFR $\alpha$  (platelet-derived growth factor receptor  $\alpha$ ), is a receptor located on the surface of a wide range of cell types. This receptor binds to certain isoforms of platelet-derived growth factors (PDGFs) and thereby becomes active in stimulating cell signaling pathways that elicit responses such as cellular growth and differentiation. The receptor is critical for the development of certain tissues and organs during embryogenesis and for the maintenance of these tissues and organs, particularly hematologic tissues, throughout life. Mutations in the gene which codes for PDGFRA, are associated with an array of clinically significant neoplasms.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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