Data Sheet (Cat.No.TMPK-00419)

TargetMol

PDGF R alpha/PDGFRA Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	RHEPDGFRA;PDGFR-2;CD140A;PDGFR2;MGC74795;PDGF R α/PDGFRA Protein, Human, Recombinant (His & Avi);PDGFRA
Protein Construction:	Gln24-Glu524
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P16234
Molecular Weight:	59.2 kDa (predicted). Due to glycosylation, the protein migrates to 70-83 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human PDGF R alpha, His Tag at 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Anti-PDGF R alpha Antibody, hFc Tag with the EC50 of 11.0ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Platelet-derived growth factor is commonly known as a mitogen. Many research data suggest a role for PDGF-beta R in the mitogenic response of mesangial cells. There are four members of PDGF family known as PDGF-A chain, PDGF-B chain, PDGF-C chain and PDGF-D chain, which in active forms are dimers. As far as two receptors PDGF-

alpha R and PDGF-beta R are known to bind PDGF.

Reference

Chung MI, et al. Niche-mediated BMP/SMAD signaling regulates lung alveolar stem cell proliferation and differentiation. Development. 2018;145(9):dev163014. Published 2018 May 1 doi:10.1242/dev.163014

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481