

Recombinant Porcine VEGF/VEGFA Protein (His Tag)

Catalog Number: PDEP100012

Note: Centrifuge before opening to ensure complete recovery of vial contents.

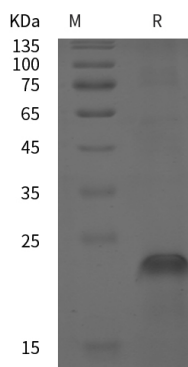
Description

Species	Porcine
Source	E.coli-derived Porcine Porcine VEGF protein Ala27-Arg190, with an N-terminal His
Calculated MW	17.9 kDa
Observed MW	20 kDa
Accession	P49151
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, 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 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Porcine VEGF/VEGFA proteins, 2 µg/lane of Recombinant Porcine VEGF/VEGFA proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 20 kDa.

Background

Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth.

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