VEGF165/VEGF-A, Human, Recombinant

Cat. No. : PCK267

General Information

Synonyms	vascular endothelial growth factor 165, VPF, Folliculostellate cell-derived growth factor, Glioma-derived endothelial cell mitogen
Species	Human
Expression host	E.coli
Sequence	MAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPSCVPLMRCGGCCN DEGLECVPTEESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQENPCGPCSERRK HLFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR with polyhistidine tag at the C-terminus.
Accession	P15692.2
Tag	His-tag at the C-terminus
Mol mass	20.11 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce HUVEC cells proliferation. The ED_{50} for this effect is <12 ng/mL. The specific activity of recombinant human VEGF165 is approximately >5 x 10^5 IU/mg.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 8.0.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Background

Vascular Endothelial Growth Factors 165(VEGF165) is a potent growth and angiogenic cytokine which belongs to the VEGF family, includes VEGF-A, VEGF-B, VEGF-C, VEGF-D, VEGF-E, and PlGF. Human VEGF165 is an abundant glycosylated cytokine composed of two identical 165 amino acid chains. Human VEGF165 plays an important role in embryonic vasculogenesis, angiogenesis and neurogenesis.