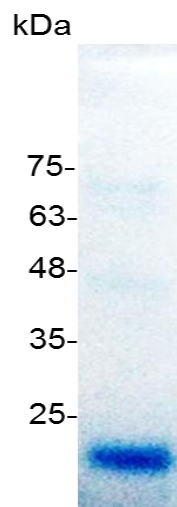


VEGF165 (Vascular endothelial growth factor 165), Human

v. 231001

Catalog number	C01125-5UG / C01125-20UG / C01125-100UG
Package	5 µg / 20 µg / 100 µg
Description	<p>Vascular endothelial growth factor (VEGF), originally known as vascular permeability factor (VPF), is a signal protein produced by cells that stimulates the formation of blood vessels. VEGF is required during embryogenesis to regulate the proliferation, migration, and survival of endothelial cells. In adults, VEGF functions mainly in wound healing and the female reproductive cycle. Pathologically, it is involved in tumor angiogenesis and vascular leakage. Circulating VEGF levels correlate with disease activity in autoimmune diseases such as rheumatoid arthritis, multiple sclerosis and systemic lupus erythematosus. VEGF is induced by hypoxia and cytokines such as IL-1, IL-6, IL-8, oncostatin M and TNF-alpha.</p>
Source	<i>Escherichia coli</i>
Sequence	<p>MAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPSCVP LMRCGGCCNDEGLECVPTTEESNITMQIMRIKPHQGGQHIGEMSFQHNKCECRP KKDRARQENPCGPCSERRKHLFVQDPQTCKCSCKNTDSRCKARQLELNERTC RCDKPRR with polyhistidine tag at the C-terminus</p>
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	<p>Measure by its ability to induce HUVEC cells proliferation. The ED₅₀ for this effect is <5 ng/mL. The specific activity of recombinant human VEGF165 is approximately >1.4 x 10⁶ IU/mg.</p>
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
Reconstitution	<p>It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.</p>
Stability & Storage	<p>This product is stable after storage at:</p> <ul style="list-style-type: none"> -20°C for 12 months in lyophilized state from date of receipt. -20°C or -80°C for 1 month under sterile conditions after reconstitution. <p>Avoid repeated freeze/thaw cycles.</p>



SDS-PAGE analysis of recombinant human VEGF165

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