

Product datasheet

Recombinant human VEGFC protein ab51968

1 References

製品の概要

製品名	Recombinant human VEGFC protein
タンパク質長	Full length protein

製品の詳細

由来	Recombinant
由来	Escherichia coli
アミノ酸配列	
生物種	Human

特性

Our [Abpromise guarantee](#) covers the use of **ab51968** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

生理活性	Activity of VEGF-C is tested by the stimulation of VEGF-R3 phosphorylation in cells transfected with VEGF-R3. The expected ED ₅₀ is > 200 ng/ml.
アプリケーション	SDS-PAGE
精製度	> 90 % SDS-PAGE. Endotoxin level is <0.1 ng per g of VEGF-C
製品の状態	Lyophilised
備考	Recombinant VEGF-C (Vascular Endothelial Growth Factor-C) is a 125 amino acid protein that lacks the N-terminal signal peptide

前処理および保存

保存方法および安定性	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.
再構成	reconstitution in 0.1% acetic acid to a concentration of 0.1-1.0 mg/ml.

関連情報

機能	Growth factor active in angiogenesis, and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. May function in angiogenesis of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates VEGFR-2 (KDR/FLK1) and VEGFR-3 (FLT4) receptors.
組織特異性	Spleen, lymph node, thymus, appendix, bone marrow, heart, placenta, ovary, skeletal muscle, prostate, testis, colon and small intestine and fetal liver, lung and kidney, but not in peripheral blood lymphocyte.
配列類似性	Belongs to the PDGF/VEGF growth factor family.
翻訳後修飾	Undergoes a complex proteolytic maturation which generates a variety of processed secreted forms with increased activity toward VEGFR-3, but only the fully processed form could activate VEGFR-2. VEGF-C first form an antiparallel homodimer linked by disulfide bonds. Before secretion, a cleavage occurs between Arg-227 and Ser-228 producing a heterotetramer. The next extracellular step of the processing removes the N-terminal propeptide. Finally the mature VEGF-C is composed mostly of two VEGF homology domains (VHDs) bound by non-covalent interactions.
細胞内局在	Secreted.

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