

Product datasheet

Recombinant human VEGFC protein ab51968

1 References

概述

产品名称	重组人VEGFC蛋白
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Escherichia coli
氨基酸序列	
种属	Human

技术指标

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.

生物活性	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.
应用	SDS-PAGE
纯度	> 90 % SDS-PAGE. Endotoxin level is <0.1 ng per g of VEGF-C
形式	Lyophilised
补充说明	Recombinant VEGF-C (Vascular Endothelial Growth Factor-C) is a 125 amino acid protein that lacks the N-terminal signal peptide

制备和贮存

稳定性和存储	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.
复溶	reconstitution in 0.1% acetic acid to a concentration of 0.1-1.0 mg/ml.

功能	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.
组织特异性	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.
序列相似性	Belongs to the PDGF/VEGF growth factor family.
翻译后修饰	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.
细胞定位	Secreted.

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