

## VEGF/VEGF-A, Swine, Recombinant

货号 : PCK350

### 产品信息

|      |                                                                                                                                                                                                                             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 别名   | VEGFA                                                                                                                                                                                                                       |
| 物种   | Swine                                                                                                                                                                                                                       |
| 表达宿主 | E.coli                                                                                                                                                                                                                      |
| 序列信息 | MAPMAEGDQKPHEVVKFMDVYQRSYCRPIETLVDIFQEYPDEIEYIFKPSCV<br>PLMRCGGCCNDEGLECVPTTEFNITMQIMRIKPHQGGQHIGEMSFLQHNKCE<br>CRPKKDRARQENPCGPCSERRKHLFVQDPQTCKCCKNTDSRCKARQLEL<br>NERTCRCDKPRR with polyhistidine tag at the C-terminus. |
| 检索号  | P49151.1                                                                                                                                                                                                                    |
| 分子量  | 20.16 kDa                                                                                                                                                                                                                   |
| 标签   | His-tag at the C-terminus                                                                                                                                                                                                   |

### 产品特性

|     |                                                                                                                                                                                                                                                                                                                      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 纯度  | >95% as determined by SDS-PAGE. Ni-NTA chromatography.                                                                                                                                                                                                                                                               |
| 内毒素 | <0.1 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                                   |
| 保存  | 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. |
| 运输  | Ambient temperature or ice pack.                                                                                                                                                                                                                                                                                     |
| 制剂  | The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0.                                                                                                                                                                                                                               |



## 复融

It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 µg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## 背景介绍

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- $\alpha$ .

## SDS-PAGE

