

Human VEGF₁₂₁Human Vascular Endothelial Growth Factor₁₂₁ recombinant*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

| Size | Order # | Lot # | Expiry Date* |
|------|--------------|------------|---------------|
| 2µg | W 2000950002 | 3502043110 | December 2013 |

Description

Recombinant human VEGF₁₂₁ is a 28.4 kDa disulfide-linked homodimeric protein consisting of two 121 amino acid polypeptide chains. VEGF is a potent growth and angiogenic cytokine. It stimulates proliferation and survival of endothelial cells, and promotes angiogenesis and vascular permeability. Expressed in vascularized tissues, VEGF plays a prominent role in normal and pathological angiogenesis. VEGF signals through three receptors; *fms*-like tyrosine kinase (*flt-1*), KDR gene product (the murine homolog of KDR is the *flk-1* gene product) and the *flt4* gene product. Due to its increased acidity, VEGF₁₂₁ circulates more freely than other VEGF forms, which bind more tightly with vascular heparin sulfates.

- **Biological activity** See below
- **Source** *E. coli*
- **Purity** ≥ 98 % (SDS-PAGE, HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Stabilizer** None
- **Buffer** None
- **Physical state** Sterile filtered, lyophilized

Biological activity

The biological activity was determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of 0.2-0.4 ng/ml.

Reconstitution

We recommend a quick spin followed by reconstitution in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex*. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Stability

The lyophilized protein is stable at room temperature for up 1 month. Reconstituted recombinant human VEGF₁₂₁ should be stored in working aliquots with a carrier protein for at least 12 months at -20°C to -80°C. **Please avoid repeated freeze/thaw cycles.**

Usage*FOR RESEARCH USE ONLY**NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES*

*For lyophilized product if stored as indicated. Please contact our technical support if the product has expired.

Biochrom AG, Leonorenstr. 2-6, 12247 Berlin

Phone: +49 30 77 99 06-92

Fax: +49 30 771 00 12

Email: info@biochrom.de<http://www.biochrom.de>