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## Product Data Sheet

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Product Name: VEGF Rat, His

Cat. No.: GP21049

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	VEGF-A; Vascular permeability factor; VPF; VEGF.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHPAPTTE GEQKAHEVVK FMDVYQRSYC RPIETLVDIF QEYPDEIEYI FKPSCVPLMR CAGCCNDEAL ECVPTSESNV TMQIMRIKPH QSQHIGEMSF LQHSRCECRP KKDRTKPEKC DKPRR		
Formulation	VEGF protein solution (0.25mg/ml) containing Phosphate buffered saline (pH7.4) and 50% glycerol.		

**Introduction**

Vascular endothelial growth factor is an important signaling protein involved in both vasculogenesis and angiogenesis. As its name implies, VEGF activity has been mostly studied on cells of the vascular endothelium, although it does have effects on a number of other cell types (e.g. stimulation monocyte/ macrophagemigration, neurons, cancer cells, kidney epithelial cells ). VEGF mediates increased vascular permeability, induces angiogenesis, vasculogenesis and endothelial cell growth, promotes cell migration, and inhibits apoptosis. In vitro, VEGF has been shown to stimulate endothelial cell mitogenesis and cell migration. VEGF is also a vasodilator and increases microvascular permeability and was originally referred to as vascular permeability factor. Elevated levels of this protein are linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

VEGF Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 145 amino acids (206-325 a.a) and having a molecular mass of 16.7kDa. VEGF is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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