Datasheet for ABIN1047904

VEGFD Protein (AA 89-205, full length) (GST tag)

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Overview

Quantity:	100 µg
Target:	VEGFD (Figf)
Protein Characteristics:	AA 89-205, full length
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This VEGFD protein is labelled with GST tag.
Application:	ELISA

Product Details

Sequence:	FAATFYDIET LKVIDEEWQR TQCSPRETCV EVASELGKST NTFFKPPCVN VFRCGGCCNE ESLICMNTST SYISKQLFEI SVPLTSVPEL VPVKVANHTG CKCLPTAPRH PYSIIRR
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalien cells or by baculovirus infection. Be aware about differences in price and lead time.
Purity:	90 %

Target Details

Target:	VEGFD (Figf)
Alternative Name:	Vascular endothelial growth factor D protein (Figf Products)
Background:	Growth factor active in angiogenesis, lymphangiogenesis and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood

Target Details

	vessels. May function in the formation 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.
Molecular Weight:	40.5 kD
UniProt:	O43915
Pathways:	RTK Signaling

Application Details

Comment:	The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modificated such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Concentration:	0.2-2 mg/mL
Buffer:	Tris-based buffer, 50 % glycerol
Handling Advice:	Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week
Storage:	-20 °C
Storage Comment:	Store at -20 °C for extended storage, conserve at -20 °C or -80 °C

Publications

Product cited in:	Ota, Suzuki, Nishikawa, Otsuki, Sugiyama, Irie, Wakamatsu, Hayashi, Sato, Nagai, Kimura,

Publications

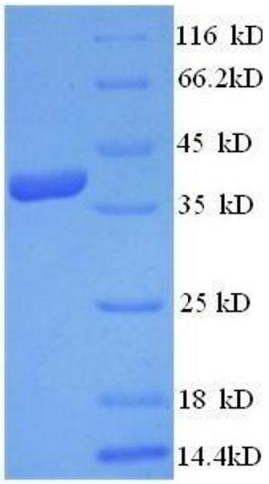
Makita, Sekine, Obayashi, Nishi, Shibahara, Tanaka, Ishii, Yamamoto, Saito, Kawai, Isono, Nakamura, Nagahari et al.: "Complete sequencing and characterization of 21,243 full-length human cDNAs. ..." in: **Nature genetics**, Vol. 36, Issue 1, pp. 40-5, (2003) (PubMed).

Rocchigiani, Lestingi, Luddi, Orlandini, Franco, Rossi, Ballabio, Zuffardi, Oliviero: "Human FIGF: cloning, gene structure, and mapping to chromosome Xp22.1 between the PIGA and the GRPR genes." in: **Genomics**, Vol. 47, Issue 2, pp. 207-16, (1998) (PubMed).

Achen, Jeltsch, Kukk, Mäkinen, Vitali, Wilks, Alitalo, Stacker: "Vascular endothelial growth factor D (VEGF-D) is a ligand for the tyrosine kinases VEGF receptor 2 (Flk1) and VEGF receptor 3 (Flt4)." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 95, Issue 2, pp. 548-53, (1998) (PubMed).

Yamada, Nezu, Shimane, Hirata: "Molecular cloning of a novel vascular endothelial growth factor, VEGF-D." in: **Genomics**, Vol. 42, Issue 3, pp. 483-8, (1997) (PubMed).

Images



SDS-PAGE

Image 1. C-Fos Induced Growth Factor (Vascular Endothelial Growth Factor D) (Figf) (AA 89-205), (full length) protein (GST tag)