Data Sheet (Cat.No.TMPY-03477)

TargetMol

FGF-1 Protein, Cynomolgus, Recombinant

General Information

Synonyms:	fibroblast growth factor 1 (acidic)
Protein Construction:	A DNA sequence encoding the cyno FGF1 (Phe16-Asp155) was expressed and purified with an initial Met. Predicted N terminal: Met
Species:	Cynomolgus
Expression Host:	E. coli
Molecular Weight:	16 kDa (predicted); 16 kDa (reducing conditions)

QC Testing

Biological Activity:	Measured in a cell proliferation assay using BALB/c 3T3 mouse fibroblasts. The ED50 for this effect is typically 0.1-0.4 ng/mL.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile PBS, pH 7.4, 20% glycerol.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

aFGF, also known as FGF1 and HBGF-1, is a member of the fibroblast growth factor family. The biological activity of aFGF protein is exerted through binding to four high affinity cell surface receptors (FGFR1-4), which results in receptor dimerization and transphosphorylation in the tyrosine kinase domain. aFGF protein shows a wide range of endocrine-like activities. As a multiple function growth factor, this protein is involved in embryo development and tissue repair. Additionally, this protein is considered to function in several important physiological and pathological processes, such as embryonic development, morphogenesis, angiogenesis, wound healing and atheromatosis, carcinogenesis, development, and invasion of cancer.References

Reference

Jaye M., et al.,(1986), Human endothelial cell growth factor: cloning, nucleotide sequence, and chromosome localization. Science 233:541-545.

Mergia A., et al., (1989), Structural analysis of the gene for human acidic fibroblast growth factor.Biochem. Biophys. Res. Commun. 164:1121-1129.

Wang W.P., et al.,(1989), Cloning of the gene coding for human class 1 heparin-binding growth factor and its expression in fetal tissues.Mol. Cell. Biol. 9:2387-2395.

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