Data Sheet (Cat.No.TMPY-00210)

TargetMol

FGF-2 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Fgfb;bFGF;Fgf-2;fibroblast growth factor 2 (basic)
Protein Construction:	A DNA sequence encoding the mouse Fgf2 (NP_032032.1) (Ala11-Ser154) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: Met
Species:	Mouse
Expression Host:	E. coli
Accession:	P15655
Molecular Weight:	18.5 kDa (predicted)

QC Testing

Biological Activity:	Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 0.1-0.6 ng/mL.
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Basic fibroblast growth factor (bFGF), also known as FGF2, is a member of the fibroblast growth factor (FGF) family. It is a highly specific chemotactic and mitogenic factor for many cell types, appears to be involved in remodeling damaged tissue, such as ulcer healing, vascular repair, traumatic brain injury (TBI). bFGF is a critical component of human embryonic stem cell culture medium. In addition, bFGF protein is a heparin-binding cationic protein involved in a variety of pathological conditions including angiogenesis and solid tumour growth. Thus,

bFGF is regarded as a target for cancers chemopreventive and therapeutic strategies.bFGF/FGF2 Protein & Antibody Products

Reference

Takayama S,et al.(2001) Periodontal regeneration by FGF-2 (bFGF) in primate models. J Dent Res. 80(12): 2075-9.
Niu YJ,et al.(2004) Therapeutic effect of bFGF on retina ischemia-reperfusion injury. Chin Med J (Engl). 117(2): 252-7.
Zhang Y,et al.(2004) Expression of aFGF, bFGF, and FGFR1 in ovarian epithelial neoplasm. Chin Med J (Engl). 117 (4): 601-3.

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