

Datasheet for 010-001-U80-0050**rMouse FGF basic Protein****Overview**

Description:	Mouse Fibroblast Growth Factor basic Recombinant Protein - 010-001-U80-0050
Item No.:	010-001-U80-0050
Size:	50 µg
Applications:	SDS-PAGE, Cellular Assay
Origin:	Mouse
Expressed in:	E. coli

Product Details

Background:	Fibroblast Growth Factors, FGFs, are a 22 member family of proteins known to be involved in angiogenesis, wound healing and embryonic development. As a family, they bind to heparin and signal through four receptor tyrosine kinases called, FGFR1, 2, 3 and 4. Although the mechanism remains unclear, FGF-basic, or FGF-1, is a critical component in keeping human embryonic stem cells undifferentiated in cell culture systems. Recombinant mouse FGF basic is a non-glycosylated protein, containing 145 amino acids, with a molecular weight of 16.3 kDa.
Synonyms:	Heparin-binding growth factor 2 (HBGF-2), Prostatropin, Basic fibroblast growth factor (bFGF)
Species of Origin:	Mouse
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	Fgf2
Purity/Specificity:	Fibroblast Growth Factor basic purity was determined to be greater than 95% as determined by analysis of reducing and non-reducing SDS-PAGE.
Relevant Links:	• UniProtKB - P61148

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Cellular Assay (Based on references)
Application Note:	Fibroblast Growth Factor basic Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Fibroblast Growth Factor basic in immunological assays. Buffer Formulation: 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein. Biologic Activity: The activity is determined by the dose-dependent proliferation of 3T3 cells and is typically less than 2.5 ng/mL.

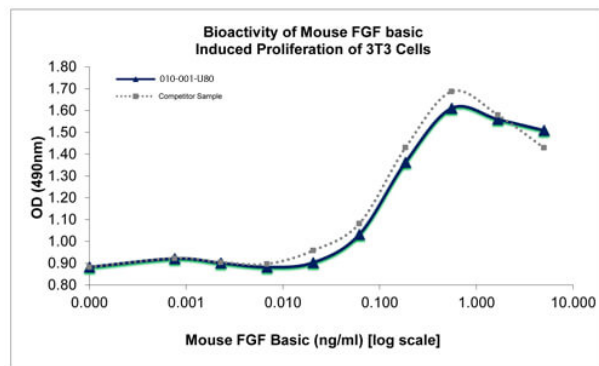
Formulation

Physical State:	Lyophilized
Buffer:	See application note.
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	50 μ L
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

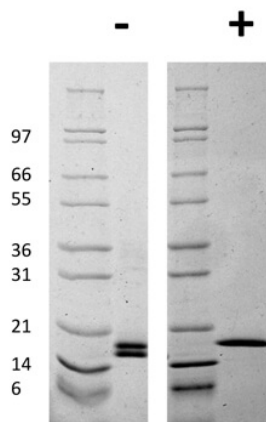
Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

Mouse Fibroblast Growth Factor basic Recombinant Protein. Serial dilutions of Mouse FGF Basic, starting at 5 ng/mL, were added to NIH 3T3 cells. Cell proliferation was measured after 41 hours and the linear portion of the curve was used to calculate the ED50. The ED50 of Mouse FGF Basic is 0.1-0.16 ng/mL. This value is comparable with the typical expected range of < 1 ng/mL.



SDS-PAGE

SDS-PAGE of Mouse Fibroblast Growth Factor basic Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Mouse FGF-basic in non-reducing conditions (-). Lane 3: Molecular weight marker. Lane 4: 1 µg Mouse FGF-basic in reducing conditions (+). Mouse FGF-basic has a predicted MW of 17.2 kDa.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.