bio-techne[®] RDSYSTEMS

Catalog Number: BT-FGFBHS

Source	<i>E. coli</i> -derived human FGF basic/FGF2/bFGF protein Ala135-Ser288 (with modifications) Accession # NP_001997.5
N-terminal Sequence Analysis	Ala135 & Ala136
Predicted Molecular Mass	17 kDa

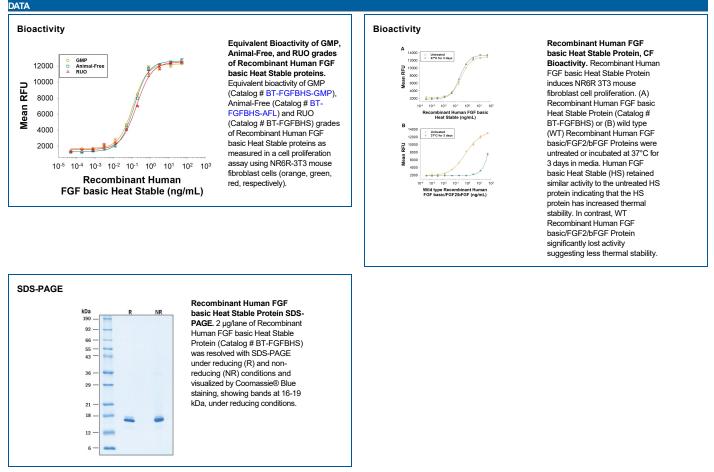
SPECIFICATIONS	
SDS-PAGE	16-19 kDa, under reducing conditions.
Activity	Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblast cells. Raines, E.W. <i>et al.</i> (1985) Methods Enzymol. 109 :749. The ED ₅₀ for this effect is 0.0500-0.600 ng/mL.
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE with quantitative densitometry by Coomassie® Blue Staining.
Formulation	Lyophilized from a 0.2 µm filtered solution in HEPES and Sodium Sulfate with Trehalose. See Certificate of Analysis for details.

PREPARATION AND STORAGE	
Reconstitution	Reconstitute 10 µg size at 100 µg/mL in sterile deionized water. Reconstitute all the other sizes at 500 µg/mL in sterile deionized water.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.

bio-techne® RDsystems

Recombinant Human FGF basic Heat Stable

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BACKGROUND

FGF basic (also known as FGF-2 and HBGF-2) is an 18-34 kDa, heparin-binding member of the FGF superfamily of molecules. As a growth factor, FGF basic is expressed in a variety of cell types and involved in the regulation of cell proliferation, differentiation, migration and survival. FGF basic promotes self-renewal and upregulates pluripotency markers such as Oct4, Sox2 and Nanog, making it well-known for maintenance of pluripotency in embryonic stem cells (ESCs) and induced pluripotent stem cells (iPSCs). These functions make FGF basic an important cell culture supplement in stem cell applications for regenerative medicine and clinical manufacturing protocols.

Our Heat Stable FGF basic has been engineered for thermostability and maintains its activity at 37°C when compared to wild-type. Heat-stable FGF basic can enhance the flexibility and efficiency of cell culture by reducing the need for frequent media changes.

PRODUCT SPECIFIC NOTICES

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