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Datasheet for 009-001-U78-0020

rHuman FGF-22 Protein

Overview

Description:	Human Fibroblast Growth Factor-22 Recombinant Protein - 009-001-U78-0020
Item No.:	009-001-U78-0020
Size:	20 µg
Applications:	SDS-PAGE
Origin:	Human
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. Human FGF-22 is a member of the FGF-7 subfamily and is synthesized by multiple cell lines including neurons, keratinocytes and skeletal muscle myotubes. Human FGF-22 shares 86% homology with mouse FGF-22. Recombinant human FGF-22 is a non-glycosylated protein, containing149 amino acids, with a molecular weight of 17.3 kDa.
Synonyms:	FGFM
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	FGF22
Purity/Specificity:	Fibroblast Growth Factor-22 purity was determined to be greater than 97% as determined by analysis by HpLC, UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Relevant Links:	• UniProtKB - Q9HCT0

Application Details

Tested Applications:	SDS-PAGE
Application Note:	Fibroblast Growth Factor-22 Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Fibroblast Growth Factor-22 in immunological assays.
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/µg protein. Biologic Activity: The activity, as determined by the dose-dependent proliferation of 4MBr-5 cells, is typically 50-300 ng/mL.

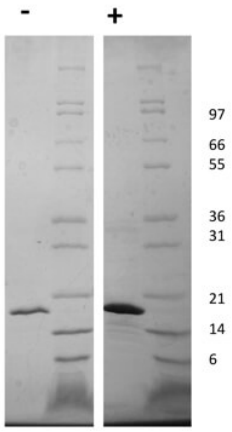
Formulation

Physical State:	Lyophilized
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	20µl (20-200µl)
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
SDS-PAGE of Human Fibroblast Growth Factor-22 Recombinant Protein. Lane 1: 1 µg Human FGF-22 in non-reducing conditions (-). Lane 2: Molecular weight marker. Lane 3: 1 µg Human FGF-22 in reducing conditions (+). Lane 4: Molecular weight marker. Human FGF-22 is predicted have a MW of 17.3 kDa.

Disclaimer

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