



Recombinant Human FGF-22 (Fibroblast Growth Factor-22)

Catalog Number: 100-68

Accession Number: Q9HCT0

Specifications and Uses:

Alternate Names: FGFM

Description:

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, containing 149 amino acids, with a molecular weight of 17.3 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human FGF-22 is lyophilized with no additives.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 97%) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

The activity, as determined by the dose-dependent proliferation of 4MBr-5 cells, is typically 50-300 ng/mL.

AA Sequence:

MTPSASRGPR SYPHLEGDVR WRRLFSSTHF FLRVDPGGRV QGTRWRHGQD SILEIRSVHV GVVVIKAVSS
GFYVAMNRRG RLYGSRLYTV DCRFRERIEE NGHNTYASQR WRRRGQPMFL ALDRRGGRP GGRTRRYHLS
AHFLPVLVS

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!