

Recombinant Human FGF-basic 147

CATALOG #: 4036-10 10 µg
 4036-50 50 µg
 4036-1000 1 mg

SOURCE: *E. coli*

PURITY: >97% by SDS-PAGE
 Endotoxin level by LAL analysis, is <0.01 ng/µg or <0.1 EU/µg.

MOL. WEIGHT: 16.5 kDa

FORM: Lyophilized from a 10 mM Na₂PO₄, pH 8.0.

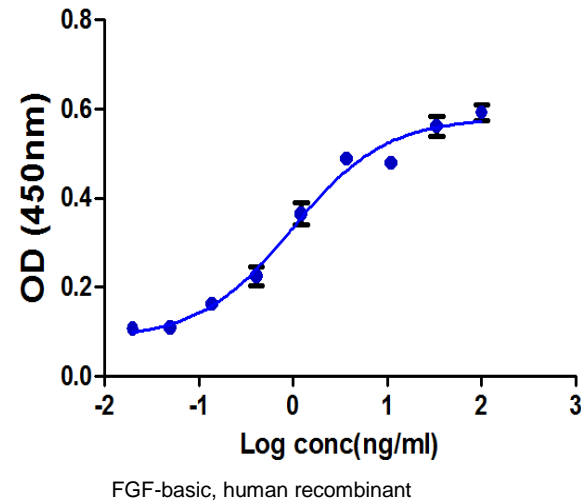
RECONSTITUTION: Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can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

STORAGE CONDITIONS: 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.

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. Although the mechanism remains unclear, FGF-basic 147 (variant of FGF basic 154) is a critical component in keeping embryonic stem cells undifferentiated in cell culture systems. Recombinant human FGF-b 147 (FGF-2) is a non-glycosylated protein, containing 147 amino acids, and having a molecular mass of 16.5 kDa.

BIOLOGICAL ACTIVITY: EC₅₀ is typically 0.67-1.45 ng/ml. The activity was determined by the dose-dependent stimulation of mouse BALB/c 3T3 cells.

AMINO ACID SEQUENCE:
 MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAE
 RGVSIVKGV ANRYLAMKED GRLLASKCVT DECFFFERLE SNNYNTYRSR KYTSWYVALK
 RTGQYKLGSK TGPGQKAILF LPMSAKS



FOR RESEARCH USE ONLY! Not to be used on humans.

- RELATED PRODUCTS:**
- 4034-10, 50, 1000 FGF-1, human recombinant
 - 4035-10, 50, 1000 FGF-1, murine recombinant
 - 4060-25, 100, 1000 FGF-10/KGF-2, human recombinant
 - 4082-25, 100, 1000 FGF-18, human recombinant
 - 4542-25, 100, 1000 FGF-19, human recombinant
 - 4037-10, 50, 1000 FGF-2, human recombinant
 - 4038-10, 50, 1000 FGF-2, murine recombinant
 - 4039-10, 50, 1000 FGF-2, rat recombinant
 - 4589-10, 20 FGF-20, human recombinant
 - 4066-10 FGF-21, human recombinant
 - 4066-100, 1000 FGF-21, human recombinant
 - 4067-10, 1000 FGF-21, murine recombinant
 - 4063-10, 50, 1000 FGF-22, human recombinant
 - 4043-25, 100, 1000 FGF-4, human recombinant
 - 4050-1000 FGF-7/KGF, human recombinant
 - 4050-10, 50 FGF-7/KGF, human recombinant
 - 4051-10, 50, 1000 FGF-7/KGF, mouse recombinant
 - 4051-10, 1000 FGF-7/KGF, murine recombinant
 - 4053-25, 100, 1000 FGF-8, human recombinant
 - 4056-20, 1000 FGF-9, human recombinant
 - 4057-10, 50, 1000 FGF-9, murine FGF-9
 - 4058-10, 50, 1000 FGF-9, rat recombinant