# FGF-16, Human Recombinant

**CATALOG #:** 7149-10 10 µg
7149-50 50 µg

**ALTERNATE NAMES:** Fibroblast Growth Factor-16, FGFG

**SOURCE:** E. Coli

**PURITY:** ≥ 95% by SDS-PAGE gel and HPLC analyses

**MOL. WEIGHT:** 23.6 kDa

**ENDOTOXIN LEVEL:** < 0.1 ng/µg of protein (<1EU/µg).

**FORM:** Lyophilized

**FORMULATION:** Sterile filtered through a 0.2 micron filter. Lyophilized from 5 mM Tris, pH 9.0, 0.1 M L-Arginine and 0.4 mM DTT.

**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

**RECONSTITUTION:**
Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

**DESCRIPTION**:
FGF-16 is a heparin binding growth factor that is a member of the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-16 signals through FGFR 2c and 3c. FGF-16 plays a role in the development of the central nervous system. Recombinant human FGF-16 is a 23.6 kDa protein consisting of 206 amino acid residues.

**BIOLOGICAL ACTIVITY:**
Determined by the dose dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors. The expected $ED_{50}$ is ≤ 0.5 ng/ml corresponding to a specific activity of ≥ 2 x 10^6 units/mg.

**AMINO ACID SEQUENCE:**
AEVGGVFASL DWDLHGFSSS LGNVPLADSP GFLNERLGQI EGKLQRGSPT DFAHLKGILR RRQLYCRTGF HLEIFPNGTV HGTRHDHSRF GILEFISLAV GLISIRGVDS GLYLGMNERG ELYGSKKLTR ECVFREQFEE NWYNTYASTL YKHSDSERQY YVALNKDGSP REGYRTKRHQ KFTHFLPRPV DPSKLPSMSR DLFHYR

**RELATED PRODUCTS:**

- FGF- basic, murine recombinant **(Cat # 7145-10, -50)**
- Human Cell$^{exp}$ Human Recombinant FGF-4 **(Cat # 6449-10, -50)**
- Human Cell$^{exp}$ Human Recombinant FGF-7 **(Cat # 6450-10, -50)**
- Human Cell$^{exp}$ Human Recombinant FGF-8b **(Cat # 6451-10, -50)**
- FGF- basic 147, human recombinant **(Cat # 4036-10, -50, -1000)**
- FGF-1, human recombinant **(Cat # 4034-10, -50, -1000)**
- FGF-1, murine recombinant **(Cat # 4035-10, -50, -1000)**
- FGF-10/KGF-2, human recombinant **(Cat # 4060-25, -100, -1000)**
- FGF-18, human recombinant **(Cat # 4082-25, -100, -1000)**
- FGF-19, human recombinant **(Cat # 4542-25, -100, -1000)**
- FGF-2, bovine recombinant **(Cat # 4040-10, -50, -1000)**
- FGF-2, human recombinant **(Cat # 4037-10, -50, -1000)**
- FGF-2, murine recombinant **(Cat # 4038-10, -50, -1000)**
- FGF-2, rat recombinant **(Cat # 4039-10, -50, -1000)**
- FGF-20, human recombinant **(Cat # 4589-20, -100)**
- FGF-21, human recombinant **(Cat # 4066-100, -1000)**
- FGF-21, murine recombinant **(Cat # 4067-10, -1000)**
- FGF-22, human recombinant **(Cat # 4063-10, -100, -1000)**
- FGF-4, human recombinant **(Cat # 4043-25, -100, -1000)**
- FGF-7/KGF, human recombinant **(Cat # 4050-10, -50, -1000)**
- FGF-8, human recombinant **(Cat # 4053-25, -100, -1000)**
- FGF-9, human recombinant **(Cat # 4056-20, -1000)**

***FOR RESEARCH USE ONLY! Not to be used in humans.***