Human CellExp™ FGFR1/CD331, human recombinant

CATALOG #: 7421-20 20 µg
7421-100 100 µg

ALTERNATE NAMES: FGFR1, FGFR-1, BFGFR, CD331, CEK, FGFBR, FLG, HBGFR, N-SAM, FLT2, H2, KAL2, FLJ14326, Fibroblast Growth Factor Receptor 1

SOURCE: HEK 293 cells (Arg 22 – Ile 376)

PURITY: ≥ 95% by SDS-PAGE gel

MOL. WEIGHT: This protein is fused with 6×his tag at the C-terminus and has a calculated MW of 40.1 kDa. The predicted N-terminus is Arg 22. DTT-reduced SDS-PAGE, protein migrates as 60-65 kDa.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

FORM: Lyophilized

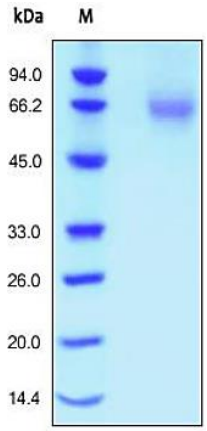
FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: Fibroblast growth factor receptor 1 (FGFR1) is also known as basic fibroblast growth factor receptor 1(BFGFR1), FMS-like tyrosine kinase, CD331, and is a receptor tyrosine kinase whose ligands are specific members of the fibroblast growth factor family. This protein is one of several fibroblast growth factor receptors, which are related proteins that are involved in important processes such as cell division, regulation of cell growth and maturation, formation of blood vessels, wound healing, and embryonic development. The FGFR1 protein spans the cell membrane, so that one end of the protein remains inside the cell and the other end projects from the outer surface of the cell. This cell and to receive signals that help the cell respond to its environment. When growth factors attach to the FGFR1 protein, the receptor triggers a cascade of chemical reactions inside the cell that instruct the cell to undergo certain changes, such as maturing to take on specialized functions. The FGFR1 protein is thought to play an important role in the development of the nervous system. This protein may also help regulate the growth of long bones, such as the large bones in the arms and legs.

BIOLOGICAL ACTIVITY: Measured by its ability to inhibit FGF-1 /FGF-acidic dependent proliferation of BALB /3T3 mouse fibroblasts. The ED_{50} for this effect is typically 15-50 ng/ml.



Human recombinant FGFR1/CD331

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-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)**