Recombinant human FGF receptor 1/FGFR1 protein

Catalog Number: ATGP3856

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
22-374aa

UniProt No.
P11362

NCBI Accession No.
NP_056934

Alternative Names
Fibroblast growth factor receptor 1 isoform 1, FGFR-1, Basic fibroblast growth factor receptor 1, BFGFR, bFGF-R-1, Fms-like tyrosine kinase 2, FLT-2, N-sam, Proto-oncogene c-Fgr, CD331, CEK, FGFBR, FLG, HBGFR, KAL2, Pfeiffer syndrome

PRODUCT SPECIFICATION

Molecular Weight
40.1 kDa (361aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
FGF R1 alpha, also known as fibroblast growth factor receptor 1 isoform 2, is a receptor tyrosine kinase whose ligands are specific members of the fibroblast growth factor family. This protein is related fibroblast growth

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factor (FGF) receptors that are involved in physiological and pathological processes such as cell division, regulation of cell growth and maturation, formation of blood vessels and embryonic developments. The biological activities of the FGFs are meditated by a family of type 1 transmembrane tyrosine kinases which undergo dimerization and auto-phosphorylation after ligand binding. Also, this protein is thought to play an important role in the development of the nervous system. It may also help regulate the growth of long bones, such as the large bones in the arms and legs. Defects in FGF R1 alpha are associated with various congenital malformations of the musculoskeletal system: these include the Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome. Recombinant human FGF R1 alpha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

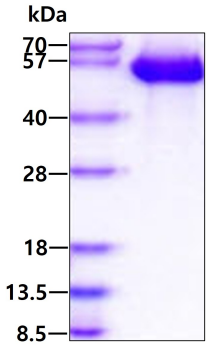
RPSPTLPEQA QPWGAPVEVE SFLVHPGDLL QLRCRLRDDV QSINWLRDGV QLAESNRTRI TGEEVEVQDS VPADSGLYAC VTSSPSGSDT TYFSVNVSDA LPSSEDDDDD DDSSSEEKET DNTKPNPVAP YWTSPEKMEK KLHAVPAAKT VKFKCPSSGT PNPTLRWLKN GKEFKPDHRI GGYKVRYATW SIIMDSVVPS DKGNYTCIVE NEYGSINHTY QLDVVERSPH RPILQAGLPA NKTVALGSNV EFMCKVYSDP QPHIQWLKHI EVNGSKIGPD NLPYVQILKT AGVNTTDKEM EVLHLRNVSF EDAGEYTCLA GNSIGLSHHS AWLTVLEALE ERPAVMTSPL YLE<LEHHHHH H>

General References

Galzie Z., et al, (1997) Biochem. Cell Biol. 75:669-685.
Burke D., et al, (1998) Trands Biochem Sci. 23:59-62.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.