

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, FGFR, 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

Recombinant human FGF receptor 1/FGFR1 protein

Catalog Number: ATGP3856

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 mediated 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

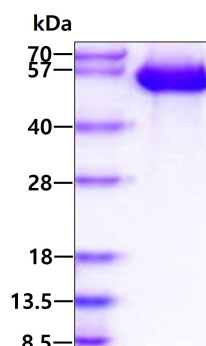
RPSPTLPEQA QPWGAPVEVE SFLVHPGDL LQLRCRLRDDV QSINWLRDGV QLAESNRTRI TGEEVEVQDS VPADSGLYAC
VTSSPSGSDT TYFSVNVSDA LPSSDDDDDD DSSSSEKET DNTKPNPVAP YWTSPEKMEK KLHAVPAAKT VKFKCPSSGT
PNPTLRWLKN GKEFKPDHRI GGYKVRYATW SIIMDSVVP S DKGNYTCIVE NEYGSINHTY QLDVVERSPH RPILQAGLPA
NKTVALGSNV EFMCKVYSDP QPHIQWLKHI EVNGSKIGPD 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) Trends Biochem Sci. 23:59-62.

DATA

SDS-PAGE



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