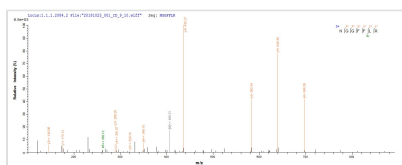




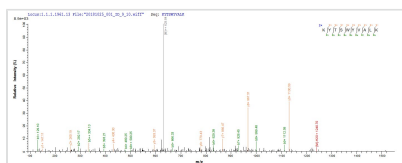
# Recombinant Human Fibroblast growth factor 2 (FGF2)

<b>Product Code</b>	CSB-YP008625HU
<b>Abbreviation</b>	Recombinant Human FGF2 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P09038
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKL QLQAEERGVSISIKGVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNTY RSRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
<b>Research Area</b>	Signal Transduction
<b>Source</b>	Yeast
<b>Target Names</b>	FGF2
<b>Protein Names</b>	Recommended name: Fibroblast growth factor 2 Short name= FGF-2 Alternative name(s): Basic fibroblast growth factor Short name= bFGF Heparin-binding growth factor 2 Short name= HBGF-2
<b>Expression Region</b>	143-288aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	17.9 kDa
<b>Protein Length</b>	Full Length of Mature Protein

## Image



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP008625HU could indicate that this peptide derived from Yeast-expressed Homo sapiens (Human) FGF2.



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## Description

The recombinant Human FGF2 is a yeast-expressed (143-288aa) protein with N-terminal 6xHis tag. The purity is 90%+ measured by SDS-PAGE. The highly developed genetic system, ease of use, reduced time input, and costs have made *Pichia Pastoris* an attractive organism for the expression and production of recombinant proteins. So we choose the Yeast system to express this recombinant FGF2 protein, which is able to carry specifically designed plasmids, and the plasmid used consists of restriction sites that can be used to insert the gene sequence of interest. Transformation of yeasts with the plasmid produces the desired protein and can be appropriately scaled up.

FGF2, a potent mitogen for fibroblasts, exerts multiple functions in tissue development and repair via interactions with FGFR1-3. The involvement of FGF2 in cell proliferation, differentiation, migration, and apoptosis in airway structural cells contributes to epithelial repair, ASMCs hyperplasia, and vascular remodeling. Since FGF2 plays important role in angiogenesis, extracellular matrix regulation, cell differentiation, and inflammatory responses, it is thus related to the development, progression, and pathogenesis of tumors. Studies have shown that FGF2 mediates cell migration and invasion in breast cancer, pancreatic cancer, astrocytes, and gliomas.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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