



# Recombinant Mouse FGF-10

20210325BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>M10-043</b>
Size:	25 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	14165
<b>Synonyms:</b>	Fibroblast Growth Factor-10, FGFA, Keratinocyte Growth Factor-2

FGF-10 is a heparin-binding growth factor that belongs to the FGF family. Proteins of this family play a central role during prenatal development, postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-10 is most related to FGF-7/KGF, and is expressed during the development and, preferentially, in adult lungs. It signals through FGFR 2b. Recombinant Murine FGF-10 is a 17.0 kDa protein consisting of 148 amino acid residues.

### Sequence

```
SSAGRHVRSY NHLQGDVRRW RLFSTKYFL TIEKNGKVS  
TKNEDCPYSV LEITSVEIGV VAVKAINSNY YLAMNKKGKL  
YGSKEFNNDK KLKERIEENG YNTYASFNWQ HNGRQMYVAL  
NGKGAPRRGQ KTRRKN TSAH FLPMTIQT
```

### Database References

<b>Protein RefSeq:</b>	NP_032028.1
<b>Uniprot ID:</b>	O35565
<b>mRNA RefSeq:</b>	NM_008002.4

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	≥ 95% by SDS-PAGE gel and HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng/µg of protein (<1EU/µg)
<b>Formulation</b>	Lyophilized (5mM Sodium Phosphate, pH 7.4 + 80mM NaCl)
<b>Length (aa):</b>	148
<b>MW:</b>	17.0 kDa

**Stability:** The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

**Reconstitution:** Centrifuge the vial prior to opening. Reconstitute in 5mM Sodium Phosphate, pH 7.4 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.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

**Biological Activity:** Determined by dose-dependent ability to reduce tetrazolium salt, WST-8, by dehydrogenase activities of BaF3 cells expressing FGF receptors using Cell Counting Kit-8 (CCK-8).