



# Recombinant Human FGF-9

20150227BB



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

<b>Cat.-no.:</b>	<b>100-021</b>
Size:	20 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	2254
<b>Synonyms:</b>	FGF9; GAF; SYNS3; HBFG-9

FGF-9 is a heparin binding growth factor that belongs to the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-9 targets glial cells, astrocytes cells and other cells that express the FGFR 1c, 2c, 3b, 3c, and 4. Recombinant human FGF-9 is a 23.4 kDa protein consisting of 207 amino acid residues.

## Sequence

```
PLGEVGNV FGVQDAVPPG NVPVLPVDSF VLLSDHLGQS EAGGLPRGPA  
VTDL DHLKGI LRRRQLYCRT GFHLEIFPNG TIQGTRKDHS  
RFGILEFISI AVGLVSIRGV DSGLYLGMNE KGELYGSEKL  
TQECVFREQF EENWYNTYSS NLYKHVD TGR RYYVALNKDG  
TPREGTRTKR HQKFTHFLPR PVD PDKVPEL YKDILSQS
```

## Database References

<b>Protein RefSeq:</b>	NP_002001.1
<b>Uniprot ID:</b>	P31371
<b>mRNA RefSeq:</b>	NM_002010

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 95% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	206
<b>MW:</b>	23.2 kDa

**Biological Activity:** The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is  $\leq 0.5$  ng/ml, corresponding to a specific activity of  $\geq 2 \times 10^6$  units/mg.



**AVOID REPEATED FREEZE AND THAW CYCLES!**