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## Product Information

### **FIBROBLAST GROWTH FACTOR-9 (FGF-9) Human, Recombinant Expressed in Sf 21 insect cells**

Product No. **F 1168**

#### **Product Description**

The FGF family of cytokines consists of at least nine multifunctional growth factors having two conserved cysteine residues. All members of the family display 40%-50% conserved amino acid sequences.<sup>1</sup> FGF-9, also called glia-activating factor, stimulates the proliferation of glial cells, oligodendrocyte type 2 astrocyte progenitor cells, Balb/c3T3 fibroblasts and PC-12 cells. Unlike FGF-acidic and FGF-basic, FGF-9 is not a mitogen for human umbilical vein endothelial cells (HUVECs).<sup>2</sup>

Expressed in Sf 21 insect cells

Molecular Weight: 22.8 kDA

Purity: ≥97% by SDS-PAGE

EC<sub>50</sub>: 0.5 - 5.0 ng/ml

Package Size: 25 µg

Formulation: Lyophilized from a 0.2 µm-filtered solution of PBS, pH 7.4.

Carrier Protein: 1.25 mg bovine serum albumin (BSA)

Sterility: 0.2 µm-filtered, aseptic fill

Endotoxin: ≤0.1 ng/µg FGF-9

#### **Performance Characteristics**

The biological activity of Fibroblast Growth Factor-9 (FGF-9) is measured by its ability to stimulate<sup>3</sup> H-thymidine incorporation in quiescent BALB/3T3 fibroblasts. The EC<sub>50</sub> is defined as the effective concentration of growth factor that elicits a 50% increase in cell growth in a cell-based bioassay.

#### **Reconstitution and Use**

Reconstitute the contents of the vial using 0.2 µm-filtered PBS containing 0.1% HSA or BSA to a concentration not less than 5 µg/ml.

#### **Storage**

Prior to reconstitution, store at -20 °C for a maximum of 6 months. After reconstitution, store at 2-8 °C for no more than 1 month. For extended storage, freeze in working aliquots at -70 °C or -20 °C. Repeated freezing and thawing is not recommended.

#### **References**

1. Marics, I., et al., *Oncogene*, **4**, 335 (1989).
2. Nauro, K., et al *J. Biol. Chem.*, **268**, 2857 (1993).  
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