

rec. human Fibroblast Growth Factor-8

rHu FGF-8

Product	Cat#	Package size
rec. human Fibroblast Growth Factor-8 (FGF-8)	C4303.0005	5µg
rec. human Fibroblast Growth Factor-8 (FGF-8)	C4303.0025	25µg
rec. human Fibroblast Growth Factor-8 (FGF-8)	C4303.1000	1mg

Synonyms: FGF8B, FGF-8B, FGF8-B, KAL6, HBGF-8, HBGF8, AIGF, HBGF-8, MGC149376, fibroblast growth factor 8.

Product description

FGF-8 is part of the fibroblast growth factor family. FGF family members have wide mitogenic and cell survival activities, and participate in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF-8 supports androgen and anchorage independent growth of mammary tumor cells. FGF-8 over expression increases tumor growth and angiogenesis. The adult expression of FGF-8 gene is restricted to testes and ovaries. FGF-8 functions as an embryonic epithelial factor. FGF-8 takes part in midbrain and limb development, organogenesis, embryo gastrulation and left-right axis determination.

Recombinant human Fibroblast Growth Factor-8 (FGF-8) is produced in *E. Coli* as a non-glycosylated polypeptide of 194 amino acids and a total molecular mass of 22.5 kDa.

Source: *E. coli*

Biological activity

The ED50, as determined by its ability to induce proliferation of NR6-R 3T3, is 0.915ng/mL, corresponding to a specific activity of 1.1x10E6units/mg.

Purity: >95% determined by SDS-PAGE

Amino acid sequence:

MQQVTVQSSPN FTQHVREQLS VTDQLSRRLI RTYQLYSRTS GKHVQVLANK RINAMAEDGD PFAKLIVETD TFGSRVRVRG AETGLYICMN KKGKLIKSN GKGDKCVFTE IVLENNYTAL QNAKYEGWYM AFTRKGRPRK GSKTRQHQRE VHFMRKLRPG HHTTEQSLRF EFLNYPFTR SLRGSQRTWA PEPR.

Formulation: FGF-8 l is lyophilized from a sterile 0.2µm filtered aqueous solution containing 0.1% TFA.

Stability

Lyophilized human Fibroblast Growth Factor-8 (FGF-8) although stable at room temperature for 3 weeks, should be stored desiccated below -20°C.

Upon reconstitution Fibroblast Growth Factor-8 (FGF-8) should be stored at +2°C to +8°C between 2-7 days and for future use below -20°C.

Please prevent from repeated freeze-thawing cycles.

Reconstitution

We recommend to reconstitute the lyophilised human Fibroblast Growth Factor-8 (FGF-8) in sterile demineralised water at a concentration of not less than 100µg/mL which can be further diluted to other aqueous solutions.

Usage

This product is for research/laboratory usage only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.