

Recombinant Mouse/Rat FGFa

Catalog No: C043

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| Description | Recombinant Mouse/Rat Fibroblast growth factor 1/Fibroblast Growth Factor Acidic is produced by our E.coli expression system and the target gene encoding Phe16-Asp155 is expressed. |
| Source | E. coli |
| Alternative name | Fibroblast Growth Factor 1; FGF-1; Acidic Fibroblast Growth Factor; aFGF; Heparin-Binding Growth Factor 1; HBGF-1; Fgf1; Fgf-1; Fgfa |
| Accession No. | P61148 |
| Formulation | Lyophilized from a 0.2 µm filtered solution of 20mM TrisHCl, 500mM NaCl, pH 6.6. |
| Quality Control | <p>Bioactivity* Measured by the dose-dependent stimulation of thymidine uptake by 3T3 cells in the presence of Heparin.</p> <p>ED50 is less than 0.5 ng/ml. Specific Activity of 2.0×10^6 IU/mg.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/µg (1 IEU/µg).</p> |
| Shipping | <p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p> |
| Storage | <p>Lyophilized protein should be stored at $< -20^\circ\text{C}$, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at $4-7^\circ\text{C}$ for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at $< -20^\circ\text{C}$ for 3 months.</p> |
| Amino Acid Sequence | <p>FNLPLGNYKKPKLLYCSNGGHFLRLPDGTVDGTRDRSDQHIQLQLSAESAGEVYIKGTETGQYLAM</p> <p>DTEGLLYGSQTPNEECLF</p> <p>LERLEENHYNTYTSKKHAEKNWFVGLKKNKGCKRGPRTHYGQKAILFLPLPVSSD</p> |
| Background | <p>FGF acidic is a 17 kDa nonglycosylated member of the FGF family of mitogenic peptides. FGF acidic, which is produced by multiple cell types, stimulates the proliferation of all cells of mesodermal origin and many cells of neuroectodermal, ectodermal, and endodermal origin. It plays a number of roles in development, regeneration, and angiogenesis. FGF-acidic is a non-glycosylated heparin binding growth factor that is expressed in the brain, kidney, retina, smooth muscle cells, bone matrix, osteoblasts, astrocytes and endothelial cells. FGF-acidic has the ability to signal through all the FGF receptors.</p> |

SDS-PAGE

