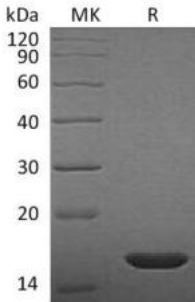
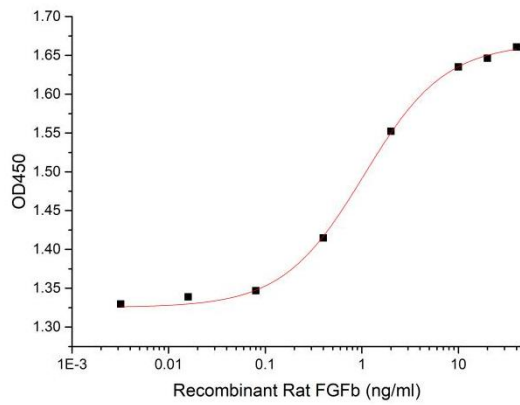


Recombinant Rat FGFb

Catalog#:P01413 Derived from *E.coli*

DESCRIPTION	<p>Recombinant Rat Fibroblast Growth Factor 2/Fibroblast Growth Factor Basic is produced by our <i>E.coli</i> expression system and the target gene encoding Ala11-Ser154 is expressed.</p> <p>Accession#:P13109</p> <p>Synonyms: Fibroblast Growth Factor 2, FGF-2, Basic Fibroblast Growth Factor, bFGF, HeparinBinding Growth Factor 2, HBGF-2, FGF2, FGFB</p>
FORMULATION	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
SHIPPING	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
STORAGE	<p>Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt.</p> <p>Reconstituted protein solution can be stored at 2-8°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.</p>
RECONSTITUTION	<p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> <p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
QUALITY CONTROL	<p>Mol Mass: 16.2 KDa AP Mol Mass: 16 KDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test.</p>
BACKGROUND	<p>FGF-basic is a members of the Fibroblast Growth Factors (FGFs) family. The family constitutes a large family of proteins involved in many aspects of development including cell proliferation, growth, and differentiation. They act on several cell types to regulate diverse physiologic functions including angiogenesis, cell growth, pattern formation, embryonic development, metabolic regulation, cell migration, neurotrophic effects, and tissue repair. FGF-basic is a non-glycosylated heparin binding growth factor that is expressed in the brain, pituitary, kidney, retina, bone, testis, adrenal gland liver, monocytes, epithelial cells and endothelial cells. FGF-basic signals through FGFR 1b, 1c, 2c, 3c and 4.</p>
<p>SDS-PAGE</p>  <p>The SDS-PAGE gel image shows molecular weight markers (MK) on the left with bands at 120, 90, 60, 40, 30, 20, and 14 kDa. On the right, there are two lanes: 'MK' (markers) and 'R' (sample). A single, prominent band is visible in lane 'R' at approximately 16 kDa, corresponding to the expected molecular weight of Recombinant Rat FGFb.</p>	

Bioactivity-Cell Based Assay:



Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.3-1.8 ng/ml.