

Active Recombinant Human FGFR3

Cat. No. FGFR3-8320H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGFR3 was expressed in NSO Cells.
Species	Human
Source	Mammalian Cells
Description	Fibroblast growth factor receptor 3 is receptor tyrosine kinases expressed on most types of cells. FGFR3 protein plays a role in the development and maintenance of bone and brain tissue and has several important cellular functions such as regulation of cell growth and division, determination of cell type, formation of blood vessels, wound healing, and embryo development. FGFR3 result in autosomal dominant human skeletal dysplasias and is a major cause of benign epidermal tumors in humans.
Form	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Bio-activity	The biological activity of Human FGF R3 was determined by its ability to inhibit FGF acidic-dependent proliferation of NR6R-3T3 mouse fibroblasts. The expected ED50 for this effect is 1 - 3 ng/ml.
Molecular Mass	The predicted molecular weight of Recombinant Human FGF R3 is Mr 64.7 kDa (monomer). However, the actual molecular weight as observed by migration on SDS-PAGE is Mr 100-115 kDa.

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AA Sequence	Human FGF R3 (IIIc) - IEGRMD - Human IgG1 (Pro100 - Lys330)
Endotoxin	<1.0 eu/μg="" as="" determined="" by="" the="" la="">
Purity	>95% by SDS-PAGE and analyzed by silver stain.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	FGFR3 fibroblast growth factor receptor 3 [Homo sapiens]
Official Symbol	FGFR3
Synonyms	FGFR3; fibroblast growth factor receptor 3; ACH, achondroplasia, thanatophoric dwarfism; CD333; CEK2; JTK4; FGFR-3; tyrosine kinase JTK4; hydroxyaryl-protein kinase; ACH; HSFGR3EX;
Gene ID	2261
mRNA Refseq	NM_000142
Protein Refseq	NP_000133
MIM	134934
UniProt ID	P22607

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Chromosome Location	4p16.3
Pathway	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Downstream signaling of activated FGFR, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; FGFR ligand binding and activation, organism-specific biosystem;
Function	ATP binding; fibroblast growth factor binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity; nucleotide binding; protein binding; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity;

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