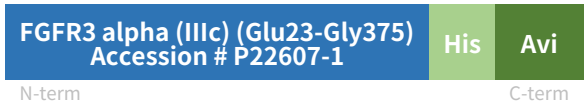
Rev02
Update: Aug,08,2025

DATASHEET

FGFR3 alpha (IIIc)[Biotin], His & Avi, Human

Cat. No.: Z04089

Product Introduction

Species	Human
Protein Construction	
Conjugate	Biotin
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per μg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized FGFR3 alpha (IIIc) [Biotin], His & Avi, Human at 1μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml) can bind AntiFGFR3 Antibody, hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	41.1 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 65-75 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target Background : Four distinct genes encoding closely related FGF receptors, FGF R1-4, are known. All four genes for FGF Rs encode proteins with an N-terminal signal peptide, three immunoglobulin (Ig)-like domains, an acid-box region containing a run of acidic residues between the IgI and IgII domains, a transmembrane domain and the split tyrosine-kinase domain.FGFR3 is tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation and apoptosis. Plays an essential role in the regulation of chondrocyte differentiation, proliferation and apoptosis, and is required for normal skeleton development. Regulates both osteogenesis and postnatal bone mineralization by osteoblasts.

Synonyms : ACH; CD333; CEK; CEK2; EC 2.7.10; FGF R3; FGFR3; HSFGFR3EX; JTK4

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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