

Recombinant human FGFR1 alpha protein (Fc Chimera) ab55758

3 Images

Description	
Product name	Recombinant human FGFR1 alpha protein (Fc Chimera)
Biological activity	Determined by its ability to inhibit human FGF acidic dependent proliferation on R1 cells. The ED ₅₀ for this effect is typically at 15.0-30.0 ng/ml.
Purity	> 90 % SDS-PAGE. Purity: > 90%, by SDS-PAGE and visualised by silver stain. Affinity purified.
Expression system	Baculovirus infected insect cells
Accession	<u>P11362</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	RPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRD DVQSINWLRDGV QLAESNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSD TTYFSVNVSDA LPSSEDDDDDDDSSSEEEKETDNTKPNRMPVAPYWTSPE KMEKKLHAVPAA KTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRIGGYKVRY ATWSIIMDSVV PSDKGNYTCIVENEYGSINHTYQLDVVERSPPHRPILQAGLP ANKTVALGS NVEFMCKVYSDPQPHIQWLKHIEVNGSKIGPDNLPLYVQILK TAGVNTTDK EMEVLHLRNVSFEDAGEYTCLAGNSIGLSHHSAWLTVLEA LEERPAVMTS PLYLEDPRRASIEGRGDPEEPKSCDKTHTCPPCPAPELL GGPSVFLFPPK PKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVH NAKTKPREEQY NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIS KAKGQPREP QVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQ

PENNYKTPP
VLDSGGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHN
HYTQKSLSLSPG K

Amino acids 22 to 376

Additional sequence information Fused with the Fc region of Human IgG1 at the C-terminus via a Xa cleavage site.

Specifications

Our **Abpromise guarantee** covers the use of **ab55758** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Functional Studies

SDS-PAGE

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Constituent: PBS

This product is an active protein and may elicit a biological response in vivo, handle with caution.

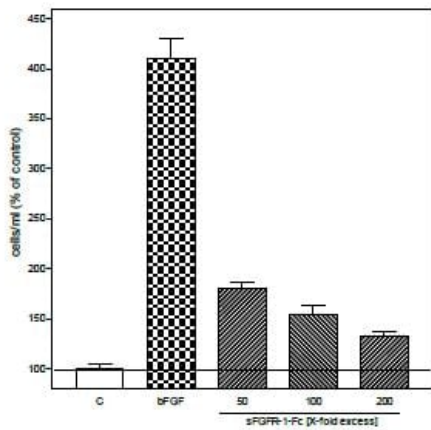
Reconstitution Reconstitute in PBS or medium to a concentration not lower than 50µg/ml. Soluble in water and most aqueous buffers.

General Info

Relevance FGFR1 (fibroblast growth factor receptor 1) is a member of the fibroblast growth factor receptor family and contains an Ig-like domain and a tyrosine kinase domain. This receptor has multiple isoforms and is a Type I membrane protein. FGFR1 is widely expressed, with distinct isoforms expressed in specific tissues. FGFR1 binds fibroblast growth factor and induces mitogenesis and cellular differentiation. Defects in FGFR1 result in Pfeiffer syndrome associated with craniosynostosis. FGFR1 can be modified by phosphorylation and can bind basic/acidic fibroblast factor depending on the receptor isoform. FGFR1 has been shown to interact with N-cadherin and NCAM.

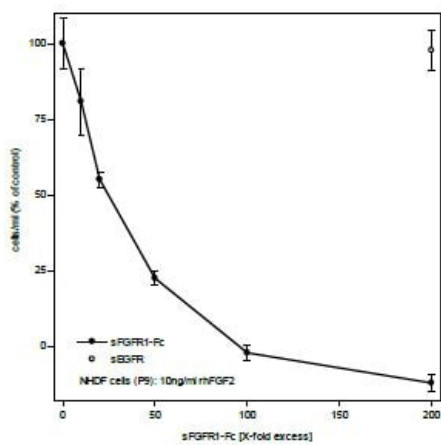
Cellular localization Cell Membrane

Images



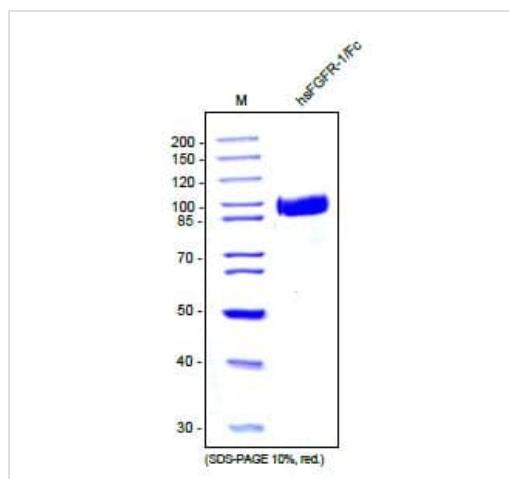
Inhibition of the basic FGF-induced proliferation of HUVE cells by recombinant human sFGFR-1-Fc. HUVECs were stimulated with 10 ng/ml bFGF, the soluble receptor was added with a 50 - 200X excess.

Functional Studies - Recombinant human FGFR1 alpha protein (Fc Chimera) (ab55758)



Inhibition of the basic FGF-induced proliferation of NHDF cells by recombinant human sFGFR-1-Fc. NHDF cells were stimulated with 10 ng/ml bFGF, the soluble receptor was added with a 50 - 200X excess.

Functional Studies - Recombinant human FGFR1 alpha protein (Fc Chimera) (ab55758)



SDS-PAGE - Recombinant human FGFR1 alpha protein (Fc Chimera) (ab55758)

SDS-PAGE analysis of recombinant human soluble FGFR-1/Fc produced in insect cells. Sample was loaded in 10% SDS-polyacrylamide gel under reducing condition and stained with Coomassie blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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