Active Recombinant Full Length Human FYN Protein, C-Flag-tagged

Cat. No. FYN-822HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FYN Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene is a member of the protein-tyrosine kinase oncogene family. It encodes a membrane-associated tyrosine kinase that has been implicated in the control of cell growth. The protein associates with the p85 subunit of phosphatidylinositol 3-kinase and interacts with the fyn-binding protein. Alternatively spliced transcript variants encoding distinct isoforms exist.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	FYN activity verified in a biochemical assay: FYN (FYN oncogene related to SRC, FGR, YES) activity was measured in a homogeneous time-resolved fluorescent (HTRF®) assay. FYN is a non-receptor tyrosine kinase and is a member of the Src kinase family consisting of Src, Fyn, Yes, Lck, Lyn, Hck, Fgr and Blk. Varying concentrations of FYN were added to a reaction mix containing ATP and a biotinylated kinase substrate and the reaction mixture was incubated to allow the protein to phosphorylate the substrate. HTRF detection reagents were then added, and the time-resolved fluorescent signal was measured on a Flexstation 3 microplate

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	reader. The time resolved fluorescent signal is expressed as “delta R” or “&DeltaR” and is a ratio calculated from the fluorescent emission intensities of the donor and acceptor fluors.
Molecular Mass	60.6 kDa
AA Sequence	MGCVQCKDKEATKLTEERDGSLNQSSGYRYGTDPTPQHYPSFGVTSIPNYNNFHA AGGQGLTVFGGVNSS SHTGTLRTRGGTGVTLFVALYDYEARTEDDLSFHKGEKFQI LNSSEGDWWEARSLTTGETGYIPSNYVAP VDSIQAEEWYFGKLGRKDAERQLLSF GNPRGTFLIRESETTKGAYSLSIRDWDDMKGDHVKHYKIRKLDN GGYYITTRAQFET LQQLVQHYSERAAGLCCRLVVPCHKGMPRLTDLSVKTKDVWEIPRESLQLIKRLGN G QFGEVWMGTWNGNTKVAIKTLKPGTMSPESFLEEAQIMKKLKHDKLVQLYAVVS EEPIYIVTEYMNKGSL LDFLKDGEGRALKLPNLVDMAAQVAAGMAYIERMNYIHRDL RSANILVGNGLICKIADFGLARLIEDNEY TARQGAKFPIKWTAPEAALYGRFTIKSDV WSFGILLTELVTKGRVPYPGMNNREVLEQVERGYRMPCPQD CPISLHELMIHCWKKDPEERPTFEYLQSFLEDYFTATEPQYQPGENLTRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Adherens junction, Axon guidance, Fc epsilon RI signaling pathway, Focal adhesion, Natural killer cell mediated cytotoxicity, Pathogenic Escherichia coli infection, Prion diseases, T cell receptor signaling pathway, Viral myocarditis
Full Length	Full L.

GENE INFORMATION

Gene Name	FYN FYN proto-oncogene, Src family tyrosine kinase [Homo sapiens (human)]
Official Symbol	FYN
Synonyms	SLK; SYN; p59-FYN
Gene ID	2534
mRNA Refseq	NM_002037.5
Protein Refseq	NP_002028.1
MIM	137025
UniProt ID	P06241

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