

Recombinant Human FYN Oncogene Related To SRC, FGR, YES

Cat. No. FYN-217H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human FYN was expressed in E.coli, MW=50 kDa.

Species Human

Source E.coli

Description

p59-Fyn is a member of the protein-tyrosine kinase oncogene family. p59fyn is a membrane-associated non-receptor protein tyrosine kinase that belongs to the Src-family of kinases. p59-Fyn encodes a membrane-associated tyrosine kinase which is implicated in the control of cell growth. p59-Fyn associates with the p85 subunit of phosphatidylinositol 3-kinase and interacts with the fyn-binding protein. The unique N-terminal domain of p59fyn interacts with the CD3 and eta chains of the TcR. p59fyn can bind other proteins (p82 and p116) through its SH2 and SH3 domains, which may act as substrates or regulators of fyn activity. p59fyn is highly expressed in brain suggesting that it may have a role in the sensory nervous network and in myelination at early stages of CNS formation. Distinct isoforms exist due to alternative splicing.

Physical Appearance Sterile Filtered clear solution.

Formulation p59-Fyn at 100g/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.

Applications ELISA • Inhibition Assays • Western Blotting.

Purity Proprietary chromatographic techniques and SDS-PAGE.

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Stability Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name FYN FYN oncogene related to SRC, FGR, YES [Homo sapiens]

Synonyms FYN; FYN oncogene related to SRC, FGR, YES; SLK; SYN; MGC45350; src-like kinase; OTTHUMP00000017917; c-syn protooncogene; src/yes-related novel; tyrosine kinase p59fyn(T); protein-tyrosine kinase fyn; OKT3-induced calcium influx regulator; Proto-oncogene tyrosine-protein kinase Fyn; EC 2.7.10.2; p59-Fyn; Protooncogene Syn; OTTHUMP00000017914; OTTHUMP00000017915

Gene ID 2534

mRNA Refseq NM_002037

Protein Refseq NP_002028

MIM 137025

UniProt ID P06241

Chromosome Location 6q21

Pathway 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; Axon guidance; HIV Infection; Hemostasis; Signaling in Immune system

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Function

ATP binding; glycoprotein binding; identical protein binding; manganese ion binding; metal ion binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; transferase activity; tubulin binding

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