Recombinant FYN protein (His tag)

Catalog Number	544316
Synonyms	Proto-oncogene Syn; Proto-oncogene c-Fyn; Src-like kinase; SLK; p59-Fyn
Species	Human
Expression System	E. coli
Accession	P06241
Molecular Weight	Predictes a molecular mass of 53.68 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 56 kDa band.

Product Information

Sequence Region	84-537
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 84-537 aa (P06241) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Tyrosine-protein kinase Fyn (EC 2.7.10.2) Fragment (residues 84-537) is a high-purity protein designed to encompass the SH2 and Protein kinase domains. This fragment serves as an essential tool for investigating Fyn's role in cellular signaling, cytoskeletal dynamics, and immune responses, enabling targeted studies of domain-specific functions. Tyrosine-protein kinase Fyn is a non-receptor tyrosine kinase critical for regulating diverse biological processes, including cell growth, adhesion, motility, and immune function. It mediates integrin signaling, cytoskeletal remodeling through phosphorylation of actin and microtubule-associated proteins, and T-cell receptor activation. Fyn also contributes to neural processes, glomerular integrity in the kidney, and cell survival pathways. The full-length protein localizes to the cytoplasm, nucleus, and cell membrane, with palmitoylation facilitating its presence in lipid rafts. This recombinant fragment retains key functional domains, allowing focused exploration of Fyn's mechanistic roles in signaling cascades.