Recombinant YES protein (His tag)

Catalog Number	542049
Synonyms	Proto-oncogene c-Yes; p61-Yes
Species	Human
Expression System	E. coli
Accession	P07947
Molecular Weight	Predictes a molecular mass of 53.30 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 56 kDa band.

Product Information

Sequence Region	93-543
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 93-543 aa (P07947) 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 Yes (YES1) fragment (residues 93-543) is a high-purity protein engineered to include the complete SH2 and Protein kinase domains. This product serves as an essential tool for investigating kinase activity, signal transduction mechanisms, and cellular regulation in cancer and developmental biology research. Tyrosine-protein kinase Yes (YES1) is a non-receptor protein tyrosine kinase that plays critical roles in regulating cell growth, survival, adhesion, cytoskeleton remodeling, and differentiation. It functions downstream of multiple receptor tyrosine kinases (including EGFR, PDGFR, CSF1R, and FGFR) and participates in diverse cellular processes such as tight junction assembly through PARD3 phosphorylation, T-cell migration via DPYSL2 phosphorylation, CD95L/FASLG signaling, AKT-mediated cell migration, and cell cycle progression through CDK4 phosphorylation. The protein localizes to the cell membrane, cytoplasm, cytoskeleton, centrosome, cytosol, and cell junctions, trafficking through the Golgi apparatus to reach the plasma membrane via the exocytic pathway.