Recombinant Human c-Yes/YES1 Protein (His &GST Tag)

Catalog Number: PKSH030348

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

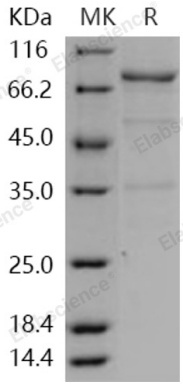
Description

Species	Human
Source	Baculovirus-Insect Cells-derived Human c-Yes/YES1 protein Gly 2-Leu 543, with an N-terminal His & GST
Calculated MW	88.5 kDa
Observed MW	75 kDa
Accession	NP_005424.1
Bio-activity	The specific activity was determined to be 35 nmol/min/mg using Poly(Glu, Tyr) 4:1 as substrate.

Properties

Purity	> 80 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as sterile solution of 20mM Tris, 500mM NaCl, 10% glycerol, 0.5mM TCEP, pH 8.0

Data



> 80 % as determined by reducing SDS-PAGE.

Background

Proto-oncogene tyrosine-protein kinase Yes, also known as Proto-oncogene c-Yes, p61-Yes and YES1, is a cytoplasm protein which belongs to theprotein kinase superfamily, Tyr protein kinase family and SRC subfamily. YES1 / c-Yes contains oneprotein kinase domain, oneSH2 domain and oneSH3 domain. It is thought that the subcellular distribution of Src-family tyrosine kinases, including c-Yes binding to the cellular membrane, is membranous and/or cytoplasmic. YES1 / c-Yes protein tyrosine kinase is known to be related to malignant transformation. YES1 / c-Yes and c-Src are the two most closely related members of the Src family of nonreceptor tyrosine kinases. Although there is much evidence to support redundancy in signaling between these two kinases. YES1 / c-Yes promotes formation of the tight junction by phosphorylating occludin, while c-Src signaling downregulates occludin formation in a Raf-1 dependent manner. YES1 / c-Yes has tyrosine kinase activity. It promotes infectivity of Neisseria gonorrhoeae in epithelial cells by phosphorylating MCP / CD46.

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