

Recombinant Human RYK protein, His & T7-tagged

Cat. No. RYK-1937H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RYK aa. (Lys308~Cys570 (Accession # NM_001005861.2)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Lys308~Cys570
Description	The protein encoded by this gene is an atypical member of the family of growth factor receptor protein tyrosine kinases, differing from other members at a number of conserved residues in the activation and nucleotide binding domains. This gene product belongs to a subfamily whose members do not appear to be regulated by phosphorylation in the activation segment. It has been suggested that mediation of biological activity by recruitment of a signaling-competent auxiliary protein may occur through an as yet uncharacterized mechanism. The encoded protein has a leucine-rich extracellular domain with a WIF-type Wnt binding region, a single transmembrane domain, and an intracellular tyrosine kinase domain. This protein is involved in stimulating Wnt signaling pathways such as the regulation of axon pathfinding. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.7kDa

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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	6

GENE INFORMATION

Gene Name	RYK receptor-like tyrosine kinase [Homo sapiens (human)]
Official Symbol	RYK
Synonyms	RYK; receptor-like tyrosine kinase; JTK5; RYK1; JTK5A; D3S3195; tyrosine-protein kinase RYK; JTK5A protein tyrosine kinase; hydroxyaryl-protein kinase
Gene ID	6259

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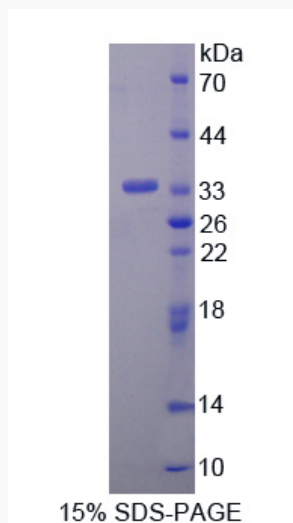
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mRNA Refseq NM_001005861.2

Protein Refseq NP_001005861.1

UniProt ID P34925

SDS-PAGE



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