

## Product datasheet for TP315449

### RYK (NM\_001005861) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human RYK receptor-like tyrosine kinase (RYK), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215449 representing NM_001005861 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MRGAARLGRPGRSCLPGARGLRAPPPPLLLLLLALLPLLPAGAAAAPAPRPPELQSASAGPSVSLYLSE  
DEVRRLLIGLDAELYVVRNDLISHYALSFSLLVPSETNFLHFTWHAKSKVEYKLGQVDNVLAMDMPQVNI  
SVQGEVPRTLVFRVELSCTGKVDSEVMILMQLNLTVNSSKNFTVLNFKRRKMCYKKLEEVKTSALDKNT  
SRTIYDPVHAAPTSTRVFYISVGVCCAVIFLVAIILAVLHLHSMKRIELDDSSISASSSSQGLSQPSTQT  
TQYLRADTPN NATPITSSLYPTLRIEKNDLRSVTLLEAKGKVKDIAISRERITLKDVLQEGTFGRIFHG  
ILIDEKDPNKEKQAFVKTVKDQASEIQVTMMLTESCKLRGLHHRNLLPITHVCIEEGEKPMVILPYMNWG  
NLKFLRQCKLVEANNPQAISQQDLVHMAIQIACGMSYLARREVIHKDLAARNCVIDDTLQVKITDNALS  
RDLFPMDYHCLGDNENRPVRWMALESLVNNEFSSASDVWAFGVTLWELMTLQTPYVDIDPFEMAAYLKD  
GYRIAQPINCPDELFAVMACCWALDPEERP KFQQLVQCLTEFHAALGAYV

**SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	67.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



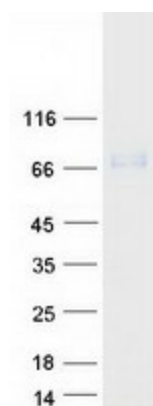
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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001005861</a>
<b>Locus ID:</b>	6259
<b>UniProt ID:</b>	<a href="#">P34925</a> , <a href="#">Q8WTZ8</a> , <a href="#">Q59FQ5</a>
<b>RefSeq Size:</b>	2960
<b>Cytogenetics:</b>	3q22.2
<b>RefSeq ORF:</b>	1830
<b>Synonyms:</b>	D3S3195; JTK5; JTK5A; RYK1

**Summary:** 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. [provided by RefSeq, Feb 2012]

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

### Product images:



Coomassie blue staining of purified RYK protein (Cat# TP315449). The protein was produced from HEK293T cells transfected with RYK cDNA clone (Cat# [RC215449]) using MegaTran 2.0 (Cat# [TT210002]).