

## Product datasheet for PH315449

### RYK (NM\_001005861) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | RYK MS Standard C13 and N15-labeled recombinant protein (NP_001005861) |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC215449   |
| Predicted MW:                         | 67.9 kDa   |
| Protein Sequence:                     | >RC215449 representing NM_001005861<br>Red=Cloning site Green=Tags(s)  |

MRGAARLGRPGRSCLPGARGLRAPPPPLLLLLALLPLLAPGAAAAPAPRPPELQSASAGPSVSLYLSE  
DEVRRLLIGLDAELYYVRNDLISHYALSFLLVPSETNFLHFTWHAKSKVEYKLGQVDNVLAMDMPQVNI  
SVQGEVPRTLVFRVELSCTGKVDSEVMILMQLNLTVNSSKNFTVLFKRRKMCYKKLEEVKTSALDKNT  
SRTIYDPVHAAPTSTRVFYISVGVCCAVIFLVAIILAVLHLHSMKRIELDDSSISASSSSQGLSQPSTQT  
TQYL RADTPN NATPITSSLYPTLRIEKNDLRSVTLLEAKGKVKDIAISRERITLKDVLQEGTFGRIFHG  
ILIDEKDPNKEKQAFVKTVKDQASEIQVTMMLTESCKLRGLHHRNLLPITHVCIEEGEKPMVILPYMNWG  
NLKFLRQCKLVEANNPQAISQQDLVHMAIQIACGMSYLARREVIHKDLAARNVCIDDTLQVKITDNALS  
RDLFPMDYHCLGDNENRPVRWMALESLVNNEFSSASDVWAFGVTLWELMTLGQTPYVDIDPFEMAAYLKD  
GYRIAQPINCPDELFAVMACCWALDPEERPKFQQLVQCLTEFHAALGAYV

SGP TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

|                  |  |
|------------------|--|
| Tag:             | C-Myc/DDK  |
| Purity:          | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| Concentration:   | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method: | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine                       |
| Buffer:          | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:         | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:       | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq:          | <u><a href="#">NP_001005861</a></u>  |
| RefSeq Size:     | 2960   |
| RefSeq ORF:      | 1830   |



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**Synonyms:** D3S3195; JTK5; JTK5A; RYK1

**Locus ID:** 6259

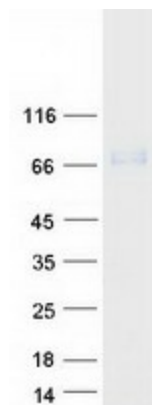
**UniProt ID:** [P34925](#), [Q8WTZ8](#), [Q59FQ5](#)

**Cytogenetics:** 3q22.2

**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]).