

Recombinant Human PKP2 Protein, His-tagged

Cat. No. PKP2-35H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PKP2 protein with His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of the arm-repeat (armadillo) and plakophilin gene families. Plakophilin proteins contain numerous armadillo repeats, localize to cell desmosomes and nuclei, and participate in linking cadherins to intermediate filaments in the cytoskeleton. This gene product may regulate the signaling activity of beta-catenin. Two alternately spliced transcripts encoding two protein isoforms have been identified. A processed pseudogene with high similarity to this locus has been mapped to chromosome 12p13.
Form	Powder
Bio-activity	Not tested.
AA Sequence	MAAPGAPAEYGYIRTVLGQQILGQLDSSSLALPSEAKLKLAGSSGRGGQTVKSLRIQ EQVQQTLARKGRSSVGNLHRTSSVPEYVYNLHLVENDFVGGRSPVPKTYDMLK AGTTATYEGRWGRGTAQYSSQKSVEERSLRHPLRRLEISPDSSPERAHYTHSDYQ YSQRSQAGHTLHHQESRRAALLVPPRYARSEIVGVSRAGTTSRQRHFDITYHRQYQ HGSVSDTVFDSIPANPALLTYPRPGTSRSMGNLLEKENYLTAGLTVGQVRPLVPLQP VTQNRASRSSWHQSSFHSTRTLREAGPSVAVDSSGRRRAHLTVGQAAAGGSGNLLT ERSTFTDSQLGNADMEM(1-351 aa encoded by BC094762)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder. Storage of Reconstituted Protein: Short-term storage: Store at 2-8 centigrade for (1-2 weeks). Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.
Storage Buffer	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.). Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
Reconstitution	Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage. Reconstitution with 200 µl 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.

GENE INFORMATION

Gene Name	PKP2
Official Symbol	PKP2 plakophilin 2 [Homo sapiens (human)]
Synonyms	PKP2; plakophilin 2; ARVD9;

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Gene ID	5318
mRNA Refseq	NM_004572.3
Protein Refseq	NP_004563.2
MIM	602861
UniProt ID	Q99959

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