

Recombinant Human FZR1 Protein (1-493 aa), His-SUMO-tagged

Cat. No. FZR1-1160H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FZR1 Protein (1-493 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Cell Biology. Protein Description: Full Length of Isoform 2.
Species	Human
Source	E.coli
ProteinLength	1-493 aa
Description	Key regulator of ligase activity of the anaphase promoting complex/cyclosome (APC/C), which confers substrate specificity upon the complex. Associates with the APC/C in late mitosis, in replacement of CDC20, and activates the APC/C during anaphase and telophase. The APC/C remains active in degrading substrates to ensure that positive regulators of the cell cycle do not accumulate prematurely. At the G1/S transition FZR1 is phosphorylated, leading to its dissociation from the APC/C. Following DNA damage, it is required for the G2 DNA damage checkpoint: its dephosphorylation and reassociation with the APC/C leads to the ubiquitination of PLK1, preventing entry into mitosis.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	70.8 kDa

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AA Sequence

MDQDYERRLLRQIVIQNENTMPRVTEMRRTLTPASSPVSSPSKHGDRFIPSRAGAN
 WSVNFHRINENEKSPSQNRKAKDATSDNGKDGLAYSALLKNELLGAGIEKVQDPQT
 EDRRLQPSTPEKKGLFTYSLSTKRSSPDDGNDVSPYSLSPVSNKSQKLLRSPRKPT
 RKISKIPFKVLDAPELQDDFYLNLDWSSLNVLSVGLGTCVYLWSACTSQVTRLCDL
 SVEGDSVTSVGWSEGRNLVAVGTHKGFVQIWDAAAGKKLSMLEGHTARV GALAW
 NAEQLSSGSRDRMILQRDIRTPPLQSERRLQGHRQEVCGLKWSTDHQLLASGGND
 NKLLVWNHSSLSPVQQYTEHLAAVKIAWSPHQHGLLASGGGTADRCIRFWNTLTG
 QPLQCIDTGSQVCNLAWSKHANELVSTHGYSQNQILVWKYPSLTQVAKLTGHSYRV
 LYLAMSPDGEAIVTGAGDETLRFWNVFSKTRSTKESVSVLNLFRIR

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name FZR1 fizzy/cell division cycle 20 related 1 (Drosophila) [Homo sapiens]

Official Symbol FZR1

Synonyms FZR1; CDC20C; CDH1; FZR; FZR2; HCDH; HCDH1; KIAA1242; CDC20-like 1b;

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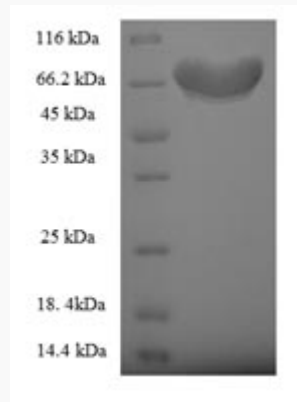
Gene ID 51343

mRNA Refseq NM_001136197

Protein Refseq NP_001129669

MIM 603619

UniProt ID Q9UM11



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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