Division of Signal Tranduction Therapy

Standard Operating Procedure

Preparation of RILPL2 [1 - 120]

Enzyme description:- RILPL2 [1 - 120]

Clone number:- DU 27504

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal His6-SUMO

Purification method:- Ni^{2+}-NTA Agarose

Calculated molecular mass:-
Monoisotopic 25, 512.59 daltons
Average Mass 25, 528.50 daltons
[cysteines reduced, methionines have not been oxidised

Theoretical pI:- 4.84

Purity:- >80 %

Enzyme storage buffer:-
50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA, 0.1 % 2-mercaptoethanol, 0.02 % Brij-35, 1 mM benzamidine, 0.2 mM PMSF

Storage temperature:- -70 °C

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Clone Data Sheet

RILPL2 [1 - 120]

Protein	RILPL2 [1 - 120]
Clone number	DU 27504
Species	Human
Accession number	NM_145058.2
Tags	N-terminal His-SUMO
Bacterially expressed protein	MGHHHHHHSDQEAKPSTEDLGDKKEGEYIKLKVIGQDSSEIHFKVKMTT HLKKLKESYCQRQGVPMNSLRFLFEGQRIADNHTPKELGMEEEDVIEVY QEQTGG**MEEPPVREEEEEEGEEDEERDEVGPEGALGKSPFQLTAEDVYD ISYLLGRELMALGSDPRVTQLQFKVVRVLEMLEALVNEGSLALEELKME RDHLRKEVEGLRRQSPPASGEVNLGPNK**
Native sequence	Amino acids M1 – K120 (end residue T211) of human RILPL2. Residue M105 of the fusion protein is equivalent to M1 of the native enzyme. The His6 tag is located at residues 3 – 8.
Protease cleavage	SENP1 cleavage of SUMO: (SDQEAKPSTEDLGDKKEGEYIKLKVIGQDSSEIHFKVKMTT HLKKLKESYCQRQGVPMNSLRFLFEGQRIADNHTPKELGME EEDVIEVYQEQTGG) residues 9 - 104
Cloning sites	*Bam*H1 and *Not*1 sites of pET15b His6-SUMO

Nucleotide Sequence Of Insert

ggatccATGGAGGAGCCCCCTGTGCGAGAAGAGGAAGAGGAGGAGGGAG
AGGAGGACGAGGAGAGGGACGAGGTTGGGCCCGAGGGGGCGCTGGGCAA
GAGCCCCTTCCAGCTGACCGCCGAGGACGTGTATGACATCTCCTACCTG
TTGGGCCGCGAGCTTATGGCCCTGGGCAGCGACCCCCGGGTGACGCAGC
TGCAGTTCAAAGTCGTCCGCGTCCTGGAGATGCTGGAGGCGCTGGTGAA
TGAGGGCAGCCTGGCGCTGGAGGAGCTGAAGATGGAGAGGGACCACCTC
AGGAAGGAGGTGGAGGGGCTGCGGAGACAGAGCCCTCCGGCCAGCGGGG
AGGTGAACCTGGGCCCAAACAAAtaggcggccgc