Division of Signal Transduction Therapy

Standard Operation Procedure

His-ATXN3L

Enzyme description:- His-ATXN3L

Clone number:- DU23069

Source:- BL21 Recombinant

Tag:- N-terminal His_6 tag

Purification method:- Ni^{++}-Sepharose

Expression level:- 1 mg/L

Calculated molecular mass:-

Monoisotopic	43165 Da
Average Mass	43191 Da

[cycsteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.02

Purity:- 60%

Enzyme storage buffer:-

50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM DTT

Storage temperature:- -80ºC

Assay:-

Ub-Rho110-Gly cleavage assay monitored by Ex/Em 485/535 nm

Assay buffer:-

40 mM Tris pH 7.5, 100 mM NaCl, 5 mM DTT, 0.01% Triton X-100, 0.005% Ovalbumin, 0.5 µM Ub-Rho110-Gly

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Clone Data Sheet

His-ATXN3L

Protein	His-ATXN3L
Synonyms	ATX3L, MJDL
Clone Number	DU23069
Species	Human
Accession Number	Protein: Q9H3M9 DNA: NM001135995.1
Tags	N-terminal His_6 tag
Amino acid sequence of expressed protein	MGSSHHHHHHSSGLEVLFQGPGS**MDFIFHEKQEGFLCAQHCLNNLLQGEYFSP VELASIAHQLDEEERMRMAEGGVTSEEYLAFLQQPSENMDDTGFFSIQVISNA LKFWGLEIIHFNNPEYQKLGIDPINERSFICNYKQHWFTIRKFGKHWFNLNSL LAGPELISDTCLANFLARLQQQAYSVFVVKGDLPDCEADQLLQIISVEEMDTP KLNGKKLVKQKEHRVYKTVLEKVSEESDESGTSDQDEEDFQRALELSRQETNR EDEHLRSTIELSMQGSSGNTSQDLPKTSCVTPASEQPKKIKEDYFEKHQQEQK QQQQQSDLPGHSSYLHERPTTSSRAIESDLSDDISEGTVQAAVDTILEIMRKN LKIKGEK**
Native sequence	in bold
Protease cleavage	Precission site underlined
Cloning sites	BamH1 / Not1

DNA sequence of insert

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ATGGATTTCATCTTTCATGAGAAACAGGAAGGTTTCCTGTGTGCTCAGCACTG
TCTGAACAATCTATTGCAAGGAGAATATTTTAGCCCTGTGGAATTAGCCTCAA
TTGCACATCAGCTAGATGAAGAAGAGAGGATGAGAATGGCAGAAGGAGGAGTC
ACCAGTGAAGAGTATCTTGCATTTTTACAGCAGCCTTCAGAAAACATGGATGA
TACCGGTTTCTTCTCCATTCAGGTAATAAGCAATGCCTTGAAGTTCTGGGGTT
TAGAGATCATCCATTTCAATAATCCTGAATATCAGAAGCTCGGCATTGATCCT
ATAAATGAAAGATCTTTTATATGTAATTATAAACAACACTGGTTTACTATTAG
AAAATTTGGAAAACACTGGTTTAACTTGAATTCTCTCTTGGCGGGTCCAGAAT
TAATATCAGATACATGCCTTGCAAATTTCTTGGCTCGATTACAACAACAAGCA
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CCTGCAGATCATCAGTGTCGAAGAGATGGATACACCAAAACTTAATGGAAAAA
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TCAGAAGAAAGTGATGAGTCTGGAACATCAGACCAAGATGAGGAGGATTTTCA
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GCAGTACTATTGAGTTAAGCATGCAAGGTAGTTCCGGAAACACATCGCAAGAT
CTTCCAAAGACATCATGTGTAACTCCTGCTTCAGAACAGCCGAAGAAAATAAA
AGAAGACTATTTTGAAAAGCATCAGCAGGAACAGAAGCAGCAGCAACAACAGT
CAGATCTGCCGGGCCACAGTTCATACCTACACGAAAGGCCAACAACAAGTTCG
AGAGCAATTGAGAGTGATCTCAGTGATGACATCAGTGAAGGCACAGTACAGGC
CGCTGTCGACACCATTTTAGAAATTATGAGAAAGAATTTGAAAATCAAAGGGG
AAAAATAA
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