Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-NEMO-His [D311N]

Enzyme description:- GST-NEMO-His 2-419 [D311N]

Clone number:- DU35443

Source:- BL21 recombinant

Tag:- N-terminal GST; C-terminal His_6

Purification method:- GSH-Sepharose

Expression level:- 1mg/L

Calculated molecular mass:-

Monoisotopic	75664 Da
Average Mass	75709 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.97

Purity:- 80%

Enzyme storage buffer:-

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

Storage temperature:- -80ºC

Assay:-

Binding assay with poly Ubiquitin (non quantitative). This is a negative control.

Division of Signal Transduction Therapy

Clone Data Sheet

GST-NEMO-His [D311N]

Protein	NEMO 2-419 [D311N]
Synonyms	AMCBX1, FIP-3, FIP3, Fip3p, IKK-gamma, IP, IP1, IP2, IPD2, IKKAP1, IKKG, I-kappa-B kinase subunit gamma, IkB kinase gamma subunit, NF-kappa-B essential modifier, NF-kappa-B essential modulator, NFkappaB essential modulator, ikB kinase subunit gamma, ikB kinase-associated protein 1, incontinentia pigmenti, inhibitor of nuclear factor kappa-B kinase subunit
Clone Number	DU35443
Species	Human
Accession Number	Protein: Q9Y6K9
Tags	N-terminal GST; C-terminal His_6
Aminoacid sequence of the expressed protein	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEF PNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVLDIRY GVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLY DALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQIDKYLKSSKYIAWPLQGWQA TFGGGDHPPKSDLEVLFQGPLGS**NRHLWKSQLCEMVQPSGGPAADQDVLGEE SPLGKPAMLHLPSEQGAPETLQRCLEENQELRDAIRQSNQILRERCEELLHF QASQREEKEFLMCKFQEARKLVERLGLEKLDLKRQKEQALREVEHLKRCQQQ MAEDKASVKAQVTSLLGELQESQSRLEAATKECQALEGRARAASEQARQLES EREALQQQHSVQVDQLRMQGQSVEAALRMERQAASEEKRKLAQLQVAYHQLF QEYDNHIKSSVVGSERKRGMQLEDLKQQLQQAEEALVAKQEVIDKLKEEAEQ HKIVMETVPVLKAQADIYKANFQAERQAREKLAEKKELLQEQLEQLQREYSK LKASCQESARIEDMRKRHVEVSQAPLPPAPAYLSSPLALPSQRRSPPEEPPD FCCPKCQYQAPDMDTLQIHVMECIE**HHHHHH
Native sequence	in bold
Protease cleavage	Prescission protease site underlined
Cloning sites	BamHI / Not1

DNA sequence of the insert