

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-NEMO-His [E315A]

Enzyme description:- GST-NEMO-His 2-419 [E315A]

Clone number:- DU35444

Source:- BL21 recombinant

Tag:- N-terminal GST; C-terminal His₆

Purification method:- GSH-Sepharose

Expression level:- 1mg/L

Calculated molecular mass:-

Monoisotopic 75607 Da

Average Mass 75652 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:- -80°C

Assay:-

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

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Clone Data Sheet

GST-NEMO-His [E315A]

| | |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Protein</u> | NEMO 2-419 [E315A] |
| <u>Synonyms</u> | 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 |
| <u>Clone Number</u> | DU35444 |
| <u>Species</u> | Human |
| <u>Accession Number</u> | Protein: Q9Y6K9 |
| <u>Tags</u> | N-terminal GST; C-terminal His ₆ |
| Aminoacid sequence of the expressed protein | MSPILGYWKIKGLVQPTRLLLEYLEEKYEHHLYERDEGDKWRNKKFELGLEF PNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVLDIRY GVSRIAYSKDFETLKVDFLSKLPPEMLKMFEDRLCHKTYLNGDHVTHPDFMLY DALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIAWPLOGWQA TFGGGDHPPKSDLEVLFOGPLGSNRHLWKSQ LC EMVQ PSGGPAADQDVLGEE SPLGKPAMLHLPSEQGAPETLQRCLEENQELRDAIROSNQILRERCEELLHF QASQREEKEFLMCKFQEARKLVERLGLKLDLKRQKEQALREVEHLKRCQQQ MAEDKASVKAQVTSLLGELQESQSRLEAATKECQALEGRARAASEQARQLES EREALQQQHSVQVDQLRMQGSVEAALRMERQAASEEKRLAQLQVAYHQLF QEYDNHIKSSVVGSEKRGMQLEDLKQOLQQAEEALVAKQEVIDKLKEEAEQ HKIVMETVPVLKAQADIYKADFQARQAREKLAEKKELLQEQLEQLOREYSK LKASCQESARIEDMRKRHVEVSQAPLPPAPAYLSSPLALPSQRRSPPEEPPD FCCPKCQYQAPDMDTLQIHVMECIEHHHHHH |
| Native sequence | in bold |
| Protease cleavage | Pre-scission protease site underlined |
| Cloning sites | BamHI / NotI |

DNA sequence of the insert