Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-Optineurin-His [D474N]

Enzyme description:- GST-Optineurin-His 1-577 [D474N]

Clone number:- DU35442

Source:- BL21 recombinant

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

Purification method:- GSH-Sepharose

Expression level:- 1mg/L

Calculated molecular mass:-

Monoisotopic	93509 Da
Average Mass	93565 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.44

Purity:- 90%

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)

Division of Signal Transduction Therapy

Clone Data Sheet

GST-Optineurin-His [D474N]

Protein	Optineurin 1-577 [D474N]
Synonyms	OPTN, ALS12, FIP2, GLC1E, HIP7, HYPL, NRP, TFIIIA-INTP, FIP-2, HIP-7, E3-14.7K-interacting protein, Huntingtin interacting protein L, huntingtin yeast partner L, huntingtin-interacting protein 7, huntingtin-interacting protein L, nemo-related protein, optic neuropathy-inducing protein, transcription factor IIIA-interacting protein, transcrption factor IIIA-interacting protein, tumor necrosis factor alpha-inducible cellular protein containing leucine zipper
Clone Number	DU35442
Species	Human
Accession Number	Protein: Q96CV9
Tags	N-terminal GST; C-terminal His_6
Aminoacid sequence of the expressed protein	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEF PNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVLDIRY GVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLY DALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQIDKYLKSSKYIAWPLQGWQA TFGGGDHPPKSDLEVLFQGPLGS**MSHQPLSCLTEKEDSPSESTGNGPPHLAH PNLDTFTPEELLQQMKELLTENHQLKEAMKLNNQAMKGRFEELSAWTEKQKE ERQFFEIQSKEAKERLMALSHENEKLKEELGKLKGKSERSSEDPTDDSRLPR AEAEQEKDQLRTQVVRLQAEKADLLGIVSELQLKLNSSGSSEDSFVEIRMAE GEAEGSVKEIKHSPGPTRTVSTGTALSKYRSRSADGAKNYFEHEELTVSQLL LCLREGNQKVERLEVALKEAKERVSDFEKKTSNRSEIETQTEGSTEKENDEE KGPETVGSEVEALNLQVTSLFKELQEAHTKLSEAELMKKRLQEKCQALERKN SAIPSELNEKQELVYTNKKLELQVESMLSEIKMEQAKTEDEKSKLTVLQMTH NKLLQEHNNALKTIEELTRKESEKVDRAVLKELSEKLELAEKALASKQLQMD EMKQTIAKQEEDLETMTILRAQMEVYCSNFHAERAAREKIHEEKEQLALQLA VLLKENDAFEDGGRQSLMEMQSRHGARTSDSDQQAYLVQRGAEDRDWRQQRN IPIHSCPKCGEVLPDIDTLQIHVMDCII**HHHHHH
Native sequence	in bold
Protease cleavage	Prescission protease site underlined
Cloning sites	BamHI / Not1

DNA sequence of the insert