

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of USP47

Enzyme description:- His-USP47 isoform X2 1-1355 (full length)

Clone number:- DU15682

Source:- chimpanzee recombinant

Tag:- N-terminal His-tag

Purification method:- NI-agarose

Expression system:- *E.coli*

Calculated molecular mass:-

Monoisotopic 159449

Average Mass 159545

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 4.89

Purity:- 80%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

Assay:-

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Clone Data Sheet

His-USP47

Protein His-USP47 isoform X2 1-1355 (full length)

Synonyms

Clone Number DU15682

Species identical to Pan troglodytes isoform X2

Accession Number XP_001171097

Tags N-terminal His-tag

Aminoacid sequence of the purified protein

msyyhhhhhhdydipttenlyfqqamgsgiqrptstsslvaaa**MVPGE**
ENQLVPKEIENAAEPRVLCIIQDTTNSKTVNERITLNLPASTPVRKL
FEDVANKVGYINGTFDLVWGNIGINTADMAPLDHTSDKSLLDANFEPGK
KNFLHLTDKDGEPQIILEDSSAGEDSVHDRFIGPLPREGSVGSTSDY
VSQSYSYSSILNKSETGYVGLVNOAMTCYLNSLLQTLFMTPEFRNALY
KWEFESEEDPVTSIPYQLQRLFVLLQTSKKRAIETTDVTRSFQWDSS
EAWQOHDVQELCRVMFDALQKWKQTEQADLINELYQGKLDYVRCLE
CGYEGWRIDTYLDIPLVIRPYGSSQAFASVEEALHAFIQPEILDGPNQ
YFCERCKKCDARKGLRFLHFPYLLTLQKRFDYTTMHRIKLNDRM
TFPEELDMSTFIDVEDEKSPQTESCTDSGAENEGSCHSDQMSNDFSD
DGVDEGICLETNSGTEKISKSGLEKNSLIYELFSVMVHSGSAAGGHYY
ACIKSFSDEQWYSFNDQHVSRITQEDIKTHGSSGSRGYYSASFAS
TNAYMLIYRLKDPARNAKFLEVDEYPEHIKNLVQKERELEEQEKQRE
IERNTCKIKLFLHPTKQVMENKLEVHKDKTLKEAVEMAYKMDLEE
VIPLDCCRLVKYDEFHDYLSYEGEEDTPMGLLLGGVKSTYMFDLLL
ETRKPQVQSYKPGVEMVKVHVVDLKAESVAAPITVTRAYLNQTVTEF
QQLISKAIHLPAETMRIVLERCYNDRLLSVSSKTLKAEGFFRSNKVF
VESSETLDYQMAFAESHLWKLDRHANTIRLFVLLPEQSPGSYSKRTA
YQKAGGDSGNVDDDCERVKGPVGLSKSVEAILEESTEKLSLSLQOOO
DGDNGDSSKSTETSDFENIESPLNERDSSASVDNRELEQHIQTSDPEN
FQSEERSDSVDNDRSTSSVSDSILSSSHSSDTLCNADNAQIPLANGL
DSHSITSSRRTKANEGKKTWDTAEEDSGTDSEYDESGKSRGEMQMY
FKAEPYAADEGSGEYKWL MVHVDKRI TLAAFQHLEPFVGVLSHF
VFRVYASNQEFESVRLNETLSSFSDDNKITIRLGRALKKGEYRVKQYQ
LLVNEQEPCKFLLDAVFAKGMTVRQSKHEELIPQLREQCGLLELSIDFR
LRKKTWKNPGTVFLDYHIYEDINISSNWEVFLEVLDGVEKMKSMSQL
AVLSRRWKPSKMLDPFQEVVLESSSVDELREKLSEISGIPLDDIEFA
KGRGTFPCDISVLDIHQDLWNPKVSTLNVWPLYICDDGAVIFYRDKT
EELMELTDEQRNELMKKESRLQKTGHRVTYSPRKEKALKIYLDGAPN
KDLTQD

Native sequence in bold

Protease cleavage TEV protease site underlined

Cloning sites NotI / NotII

DNA sequence of insert

GCGGCCGCCatggtgcccgaggagagaaccaactggtcccgaagag
atagaaaatgctgctgaagaacctagagtcttatgtattatacaagat
actactaattcaaagacagtgaatgaacggatcactttaatttacc
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