

Division of Signal Transduction Therapy

Standard Operating Procedure

Preparation of active MET [956 - 1390]

Enzyme description:- MET [956 – 1390]

Clone number:- DU 35382

Source:- Recombinant

Expression system:- Baculovirus expression vector system

Tag:- N-terminal GST

Purification method:- GSH Sepharose

Calculated molecular mass:-

Monoisotopic 75,805.45 daltons

Average Mass 75,854.21 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.21

Purity:- >80 %

Activation protocol:- Constitutively active

Enzyme storage buffer:-

50 mM Tris-HCl pH 7.5, 150 mM NaCl, 270 mM sucrose, 0.1 mM EGTA,
0.1 % 2-mercaptoethanol, 0.02 % Brij-35, 1 mM benzamidine, 0.2 mM PMSF

Storage temperature:- -70 °C

Assay buffer:-

50 mM Tris-HCl pH 7.5, 0.1 mM EGTA, 0.1 % 2-mercaptoethanol, 10 mM MgAc

Substrate:-

GGMEDIYFEFMGGKKK Final concentration: 300 uM

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Clone Data Sheet

MET [956 - 1390]

Protein MET [956 - 1390]

Clone number DU 35382

Species Human

Accession number NM_000245.3

Tags N-terminal GST

Baculovirus expressed protein

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHYERDEGDKWRNKKFEL
GLEFPNLPPYYIDGDVKLTQSMAIIRYIADKHNLGGCPKERAESMLED
GAVLDIYGVSRAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLN
GDHVTHPDFMLYDALDVLYMDPMCLDAFPKLVCFKKRIEAIPQIDKY
LKSSKYIAWPLQGWQATFGGDHPPKSDLEVLFOGPLGS**KKRQIKDL**
GSELVRYDARVHTPHLDRLVSARSVPTEMVSNESVDYRATFPEDQF
PNSSQNGSCROVQYPLTDSPILTSGSDISSPLLQNTVHIDL SALNP
ELVQAVQHVVIGPSSLIVHFNEVIGRGHFGCVYHGTL LDNDGKKIHCA
VKSLNRITDIEVSQFLTEGIIMKDFSHPNVLSLLGICLRSEGSPLVV
LPMKHMGLRNFIRNETHNPTVKDLIGFGLQVAKGMKYLASKKFVHRD
LAARNCMILEKFTVKVADFGLARDMYDKEYYSVHNKTGA**KLPVKWMAL**
ESLQTQKFTTKSDVWSFGVLLWELMTRGAPPY**PDVNTFDITVYLLQGR**
RLLQPEYCPDPLYEVMLKCWHPKAEMRPSFSELVSRI**SAIFSTFIGEH**
YVHVNVATYVNVCVAPYPSLLSSEDNADDEVDTRPASFWETS

Native sequence Amino acids K956 – S1390 (end) of human MET.

Residue K232 of the fusion protein is equivalent to K956 of the native enzyme. The GST tag is located at residues 1 – 220.

Protease cleavage PreScission site (LEVLFQGP) residues 221 – 228

Cloning sites *Bam*H1 and *Not*1 sites of pFastBac GST 6P1

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Nucleotide sequence of insert

ggatccAAAAAGAGAAAGCAAATTAAAGATCTGGGCAGTGAATTAGTT
CGCTACGATGCAAGAGTACACACTCCTCATTGGATAGGCTTGTAAAGT
GCCCGAAGTGTAAAGCCAACATACAGAAATGGTTCAAATGAATCTGTA
GAATACCGAGCTACTTTCCAGAAGATCAGTTCTAATTCATCTCAG
AACGGTTCATGCCGACAAGTCAGTATCCTCTGACAGACATGTCCCCC
ATCCTAACTAGTGGGGACTCTGATATATCCAGTCAGTCAATTACTGCAAAAT
ACTGTCCACATTGACCTCAGTGCTCTAAATCCAGAGCTGGTCAGGCA
GTGCAGCATGTAGTGATTGGGCCAGTAGCCTGATTGTGCATTCAAT
GAAGTCATAGGAAGAGGGCATTGGTTGTGTATATCATGGACTTTG
TTGGACAATGATGGCAAGAAAATTCACTGTGCTGTGAAATCCTGAAAC
AGAATCACTGACATAGGAGAAGTTCCCAATTCTGACCAGGGAAATC
ATCATGAAAGATTTCAGTCATCCCAATGTCCCTCGCTCTGGAAATC
TGCCTGCGAAGTGAAGGGTCTCCGCTGGTGGTCCCTACCATACATGAAA
CATGGAGATCTCGAAATTTCATTGAAATGAGACTCATAATCCAATC
GTAAAAGATCTTATTGGCTTGGCTTCAAGTAGCCAAAGGCATGAAA
TATCTTGCAAGCAAAAGTTGTCCACAGAGACTTGGCTGCAAGAAC
TGTATGCTGGATGAAAATTCACTGAGTCAGTTGCTGATTGGTCTT
GCCAGAGACATGTATGATAAAGAATACTATAGTGTACACAACAAAACA
GGTGCAAAGCTGCCAGTGAAGTGGATGGCTTGGAAAGTCTGCAAAC
CAAAAGTTTACCAAGTCAGATGTGTGGCCTTGGCGTGCCTCCTC
TGGGAGCTGATGACAAGAGGAGCCCCACCTTATCCTGACGTAAACACC
TTTGATATAACTGTTACTTGTTCAAGGGAGAAGACTCCTACAACCC
GAATACTGCCAGACCCCTATATGAAGTAATGCTAAATGCTGGCAC
CCTAAAGCCGAAATGCGCCCATTCTGAACTGGTGTCCGGATA
TCAGCGATCTCTACTTCAATTGGGAGCACTATGTCCATGTGAAC
GCTACTTATGTGAACGTAATGTGTGCTCCGTATCCTCTGTGTTG
TCATCAGAAGATAACGCTGATGATGAGGTGGACACACGACCAGCCTC
TTCTGGGAGACATCAtaggcggccgc