

Division of Signal Transduction Therapy

Standard Operating Procedure

Preparation of Deptor [1 - 409]

Enzyme description:- Deptor [1 – 409]

Clone number:- DU 30399

Source:- Recombinant

Expression system:- *E.coli*,

Tag:- N-terminal GST

Purification method:- GSH Sepharose

Calculated molecular mass:-

Monoisotopic 73, 070.93 daltons

Average Mass 73, 117.97 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.88

Purity:- >80 %

Enzyme storage buffer:-

50 mM Tris-HCl pH 7.5, 150 mM NaCl, 270 mM sucrose, 0.1 mM EGTA,
0.1 % 2-mercaptoethanol, 0.03 % Brij-35, 1 mM benzamidine, 0.2 mM PMSF

Storage temperature:- -70 °C

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Clone Data Sheet

Deptor [1 - 409]

Protein Deptor [1 - 409]

Clone number DU 30399

Species Human

Accession number NM_022783.2

Tags N-terminal GST

**Bacterially
expressed protein**

MSPILGYWKIKGLVQPTRLLLEYLEEKYEHLIERDEGDKWRNKKFEL
GLEFPNLPYYIDGDVKLTSMAIIRYIADKHNMLGGCPKERAEISMLE
GAVLDIRYGVSRIAYS KDFETLKVDFLSKLPPEMLKMFEDRLCHKTYLN
GDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKY
LKSSKYIAWPLOGWQATFGGGDHPKSDLEVLFOGPLGS**MEEGGSTGS**
AGSDSSTSGSGGAQORELERMAEVLVTGEQLRLRLHEEKVIKDRRHHL
KTYPNCFVAKELIDWLIHKEASDRETAIKLMQKLADRGIIHHV CDEH
KEFKDVKLFYRFRKDDGTFPLDNEVKAFMRGQRLYEKLMSPENTLLOP
REEEGVKYERTFMASEFLDWLVQEGEATTRKEAEQLCHRLMEHGI IQH
VSNKHPFVDSNLLYQFRMNFRRRRRLMELLNEKSPSSQETHDSPFCRLR
KQSHDNRKSTSFMSVSPSKEIKIVSAVRRSSMSSCGSSGYFSSSPTLS
SSPPVLCNPKSVLKR PVTSEELLTPGAPYARKTFTIVGDAVGWGFVVR
GSKPCHIQAVDPSGPAAAAGMKVCQFVVS VNGLNVLHVDYRTVSNLIL
TGPRTIVMEVMELEC

Native sequence Amino acids M1 – C409 (end) of human Deptor.
Residue M232 of fusion protein is equivalent to M1 of the native
enzyme. The GST tag is located at residues 1 – 220.

Protease cleavage Precission site (LEVLFOGP) at residues 221 – 228

Cloning sites *Bam*H1 and *Not*I sites of pGex6P-1

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Nucleotide
sequence of insert

ggatccATGGAGGAGGGCGGCAGCACTGGCAGTGCTGGCAGTGACAGC
AGCACCAGCGGGAGTGGCGGGGCGCAGCAAAGGGAGCTGGAGCGCATG
GCTGAGGTCTTGGTCACCGGGGAACAGCTACGGCTCAGGCTGCACGAA
GAAAAGGTATTAAAGATAGACGTCATCATCTCAAGACCTACCCAAAC
TGTTTTGTTCGAAAAGAACTGATTGACTGGCTGATTGAACACAAAGAG
GCTTCTGACAGAGAGACGGCAATTAAACTCATGCAGAAATTAGCAGAC
CGGGGCATTATTCACCATGTGTGTGATGAGCATAAGGAATTCAAGGAT
GTCAAACCTTCTACCGCTTTAGAAAGGATGACGGCACCTTCCCATTG
GATAATGAAGTGAAGGCCTTTATGAGAGGACAGAGGCTATATGAAAAG
CTGATGAGCCCTGAAAACACACTCCTGCAGCCCAGGGAGGAGGAAGGG
GTCAAGTATGAGCGCACCTTCATGGCATCTGAATTCCTGGACTGGCTG
GTTTCAGGAAGGTGAGGCCACCACGAGGAAAGAGGGCAGAGCAGCTTTGC
CACCGGCTTATGGAGCATGGCATCATCCAGCATGTGTCCAACAAGCAC
CCATTTGTGGACAGCAATCTTCTCTACCAAGTTCAGAATGAACTTCCGG
CGGAGGCGAAGACTGATGGAGCTGCTCAATGAAAAGTCCCCCTCCTCC
CAGGAAACTCATGACAGTCCCTTCTGCCTGAGGAAGCAGAGCCATGAC
AATCGGAAATCTACCAGCTTTATGTCAGTGAGCCCCAGCAAGGAGATC
AAGATCGTGTCTGCAGTGAGGAGAAGCAGCATGAGCAGCTGTGGCAGC
AGCGGCTACTTCAGCAGCAGCCCCACCCCTCAGCAGCAGCCCCCTGTG
CTCTGCAACCCCAAGTCCGTGCTGAAGAGACCTGTCACCTCTGAGGAA
CTCCTTACTCCCGGGGCTCCGTATGCAAGGAAGACATTCACGATTGTT
GGTGACGCGGTTGGCTGGGGTTTTGTGGTGCGAGGAAGTAAGCCATGC
CACATCCAGGCTGTAGACCCCAGTGGCCCTGCAGCCGCAGCAGGAATG
AAGGTCTGTCAGTTTGTCTGTCTGTCAACGGGCTCAATGTCTTGCAT
GTAGACTACCGGACCGTGAGCAATCTGATTCTGACGGGCCCACGGACG
ATTGTCATGGAAGTCATGGAGGAGTTAGAGTGCtgagcggccgc