

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of Dac-ATG7

Enzyme description:- Dac-ATG7 (1-703 = full length)

Clone number:- DU40180

Source:- human recombinant

Tag:- N-terminal Dac-

Purification method:- Ampicillin-Sepharose

Expression system:- baculovirus in Sf21 cells

Calculated molecular mass:-

Monoisotopic 107504 Da
Average Mass 107568 Da
[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.13

Purity:- 95%

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

Dac-ATG7

Protein ATG7 (full length)
Synonyms APG7-LIKE; APG7L; GSA7
Clone Number DU40180
Species Human
Accession Number NP_006386
Tags N-terminal Dac-

Aminoacid sequence of the expressed protein

MSAIPGV**PQIDAESYILIDYNSGKVLAEQNADVRRDPASLTKMMTSY**
VIGQAMKAGKFKETDLVTIGNDAWATGNPVFKGSSLMFLKPGMQVPV
SQLIRGINLQSGNDACVAMADFAAGSQDAFVGLMNSYVNALGLKNTH
FQTVHGLDADGQYSSARDMALIGQALIRDVPNEYSIYKEKEFTFNGI
RQLNRNGLLWDNSLNVLDGIKTGHTDKAGYNLVASATEGQMRLISAVM
GGRTFKGREAESKLLTWGFRFFETVNPENLYFQGG**SMAATGDPGL**
SKLQFAPFSSALDVGFWHELTKKLNNEYRLDEAPKDIKGY**YNGDSA**
GLPARLTLEFSAFDMSAPTPARCCPAIGTLYNTNTLESFKTADKLL
LEQAANEIWESIKSGTALENPVLLNK**FLLLT**FADLKKYHFYYWFCYP
ALCLPESLPLIQGPVGLDQRFSLKQIEALECAYDNLCQTEGV**TALPY**
FLIKYDENMVLV**SLLKHYSDF**FQ**QRTKIT**IGVYDPC**NLAQYPGWPL**
RNFLVLAHRWSS**SFQSVEV**CFRDR**TMQ**GARDVAHS**IF**EVK**LPEM**
AFSPDCPKAVGW**EKNQKGGM**GPRMVNLSECM**DPKRLAESSVDLNLKL**
MCWRLVPTLDL**DKVSVKCLLLGAGTLGCNVARTLMGWGVRHITFVD**
NAKISY**SNPVRQPLYEFEDCLGGGKPKALAAADRLQKIFPGVNARGF**
NMSIPMPGHPVNFSSVTLEQARRDVEQLEQLIESHDVV**FLLMDTRES**
RWLPAVIAASKRKLVINAA**LGFDTFVVMRHGLKPKQOGAGDLCPNH**
PVASADLLGSSLFANIPGYK**LCYFCNDVVAPGDSTRDRTL**DQ**QCTV**
SRPGLAVIAGALAVELMVSVLQHPEGGYAIASS**SDDRMNEPPTSLGL**
VPHQIRGFLSRFDNVLPVSLAFDKCTACSSK**VLDQYEREGFNFLAKV**
FNSSHSFLEDLTGLTLLH**QETQAAEIWDMSDDETI**

Native sequence residues 1 – 703 = full length in bold
Protease cleavage TEV underlined
Cloning sites BamHI / NotI

**DNA sequence of
insert**

ggatccatggcggcagctacgggggatcctggactctctaaactgca
gtttgcccttttagtagtgccttggatggtgggttttggcatgagt
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