

Recombinant human MAGEA3 protein

Catalog Number: ATGP0757

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-314aa

UniProt No.

P43357

NCBI Accession No.

NP_005353.1

Alternative Names

Melanoma-associated antigen 3, CT1.3, HIP8, HYPD, MAGE3, MZ2 D

PRODUCT SPECIFICATION

Molecular Weight

37.1 kDa (337aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Melanoma-associated antigen 3, also known MAGEA3, is a member of the MAGE gene family, which comprises 12 known genes, of which 6 are expressed in tumors. The MAGE genes were initially isolated from different kinds of tumors, and based on their virtually exclusive tumor-specific expression in adult tissues, they have been used as targets for cancer immunotherapy. MAGEA3 is a tumor-specific antigen widely expressed in solid and

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hematologic malignancies, but not in normal tissues, with the exception of testis and placenta. Therefore, MAGEA3 is an excellent candidate tumor antigen. Recombinant human MAGEA3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

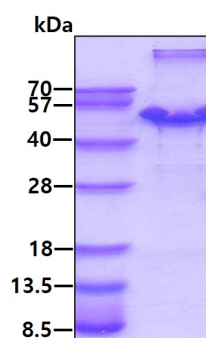
<MGSSHHHHHH SSGLVPRGSH MGSM>PLEQRS QHCKPEEGLE ARGEALGLVG AQAPATEEQE AASSSSTLVE
VTLGEVPAAE SPDPPQSPQG ASSLPPTMNY PLWSQSYEDS SNQEEEGPST FPDLESEFQA ALSRKVAELV HFLLKYNR
EPVTKAEMLG SVVGNWQYFF PVIFSKASSS LQLVFGIELM EVDPIGHLYI FATCLGLSYD GLLGDNQIMP KAGLLIIVLA
IIAREGDCAP EEKIWEELSV LEVFEGREDS ILGDPKLLT QHFVQENYLE YRQVPGSDPA CYEFLWGPRA LVETSYVKVL
HHMVKISGGP HISYPPLHEW VLREGEE

General References

Rogner u C., et al. (1995) Genomics. 29(3):725-31.
Jang S J., et al. (2001) Cancer Res. 61(21):7959-63.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.