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## 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**

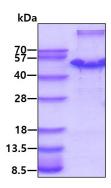
<MGSSHHHHHH SSGLVPRGSH MGSM>PLEQRS QHCKPEEGLE ARGEALGLVG AQAPATEEQE AASSSSTLVE VTLGEVPAAE SPDPPQSPQG ASSLPTTMNY PLWSQSYEDS SNQEEEGPST FPDLESEFQA ALSRKVAELV HFLLLKYRAR EPVTKAEMLG SVVGNWQYFF PVIFSKASSS LQLVFGIELM EVDPIGHLYI FATCLGLSYD GLLGDNQIMP KAGLLIIVLA IIAREGDCAP EEKIWEELSV LEVFEGREDS ILGDPKKLLT QHFVQENYLE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

#### **General References**

Roqner 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.

