

# Recombinant human AGA protein

Catalog Number: ATGP2977

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

24-346aa

### UniProt No.

P20933

### NCBI Accession No.

NP\_000018

### Alternative Names

N (4)-(beta-N-acetylglucosaminy)-L-asparaginase isoform 1, AGu, ASRG, GA

## PRODUCT SPECIFICATION

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### Molecular Weight

37 kDa (346aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

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### Description

AGA also known as N (4) - (beta-N-acetylglucosaminy) -L-asparaginase is involved in the catabolism of N-linked oligosaccharides of glycoproteins. It cleaves asparagine from N-acetylglucosamines as one of the final steps in the lysosomal breakdown of glycoproteins. Recombinant human AGA, fused to His-tag at N-terminus, was expressed in E. coli

### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSSSPLPLV VNTWPFKNAT EAWRALASG GSALDAVESG CAMCEREQCD

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GSVGFGGSPD ELGETTLDAM IMDGTTMDVG AVGDLRRIKN AIGVARKVLE HTTHTLLVGE SATTFAQSMG FINEDLSTTA  
SQALHSDWLA RNCQPNYWRN VIPDPSKYCG PYKPPGILKQ DIPIHKETED DRGHDTIGMV VIHKTGHIAA GTSTNGIKFK  
IHGRVGDSP I PGAGAYADDT AGAAAATGNG DILMRFLPSY QAVEYMRRGE DPTIACQKVI SRIQKHFPEF FGAVICANVT  
GSYGAACNKL STFTQFSFMV YNSEKNQPT EKVDCI

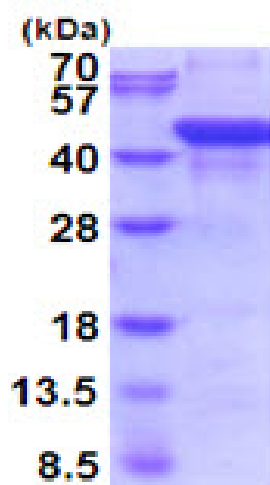
## General References

Covini D., et al. (2012) Recent Pat Anticancer Drug Discov 7 (1), 4-13

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)