

# Recombinant human alpha-L-Fucosidase 2/FUCA2 protein

Catalog Number: ATGP2902

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

29-467aa

### UniProt No.

Q9BTY2

### NCBI Accession No.

NP\_114409

### Alternative Names

Alpha-L-fucosidase 2, Alpha-L-fucoside fucohydrolase 2,  $\alpha$ -L-fucosidase 2, plasma fucosidase, a-L-fucosidase 2

## PRODUCT SPECIFICATION

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### Molecular Weight

53.3 kDa (462aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM phosphate (pH 8.0) containing 10% glycerol

### Purity

> 85% 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

FUCA2 is a plasma alpha-L-fucosidase, which represents 10-20% of the total cellular fucosidase activity. This protein is a member of the glycosyl hydrolase 29 family, and catalyzes the hydrolysis of the alpha-1, 6-linked fucose joined to the reducing-end N-acetylglucosamine of the carbohydrate moieties of glycoproteins. FuCA2 is essential for Helicobacter pylori adhesion to human gastric cancer cells. Recombinant human FuCA2 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

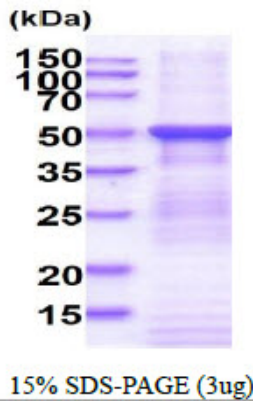
MGSSHHHHHH SSGLVPRGSH MGSHSATRFD PTWESLDARQ LPAWFDQAKF GIFIHGWFVS VPSFGSEWFW  
WYWQKEKIPK YVEFMKDNYP PSFKYEDFGP LFTAKFFNAN QWADIFQASG AKYIVLTSKH HEGFTLWGSE YSWNWNNAIDE  
GPKRDIVKEL EVAIRNRTDL RFGLYYSLEF WFHPLFLEDE SSSFHKRQFP VSKTLPELYE LVNNYQPEVL WSDGDGGAPD  
QYWNSTGFLA WLYNESPVRG TVVTNDRWGA GSICKHGGFY TCSDRYNPGH LLPHKWENCM TIDKLSWGYR REAGISDYLT  
IEELVKQLVE TVSCGGNLLM NIGPTLDGTI SVVFEERLRQ MGSWLKVNGE AIYETHTWRS QNDTVTPDVW YTSKPKEKLV  
YAIFLKWPTS GQLFLGHPKA ILGATEVKLL GHGQPLNWIS LEQNGIMVEL PQLTIHQMPC KWGWALALTN VI

## General References

Clark H.F., et al. (2003) Genome Re., 13:2265-2270

## DATA

### SDS-PAGE



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