

# Recombinant rat Lipocalin-2/NGAL protein

Catalog Number: ATGP3168

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

21-198aa

### UniProt No.

P30152

### NCBI Accession No.

NP\_570097.1

### Alternative Names

Neutrophil gelatinase-associated lipocalin

## PRODUCT SPECIFICATION

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### Molecular Weight

22.9 kDa (201aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

### Purity

> 95% by SDS-PAGE

### 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

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### Description

Lcn2 also known as Neutrophil gelatinase-associated lipocalin. It belongs to the calycin superfamily and Lipocalin family. It is essential component of the antimicrobial innate immune system, is present in neutrophils and multiple other tissues. It prevents iron acquisition by microorganisms by sequestering iron-loaded bacterial siderophores. In contrast to its pro-apoptotic activity, Lcn2 has also been reported to be a survival factor. Lcn2 protected thyroid carcinoma cells from apoptosis induced by serum deprivation and silencing of Lcn2 reduced thyroid tumor growth. Recombinant rat Lcn2, fused to His-tag at N-terminus, was expressed in E. coli and

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purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>QDSTQNL IPAPPLISVP LQPGFWTERF QGRWFVVGLA ANAVQKERQS  
RFTMYSTIYE LQEDNSYNVT SILVRGQGCR YWIRTFVPSS RPGQFTLGNH HSYPIQSYD VQVADTDYDQ FAMVFFQKTS  
ENKQYFKVTL YGRTKGLSDE LKERFVSFAK SLGLKDNNIV FSVPTDQCID N

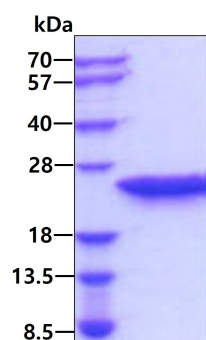
## General References

Flo TH., et al. (2004) Nature 432(7019):917-21

Nasioudis D., et al. (2015) Med Microbiol Immunol. doi.10.1007/s00430-015-0394-1

## DATA

### SDS-PAGE



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