

# Recombinant human Lipocalin-2/NGAL protein

Catalog Number: ATGP0908

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

21-198aa

**UniProt No.**

P80188

**NCBI Accession No.**

NP\_005555

**Alternative Names**

Neutrophil gelatinase-associated lipocalin, Lipocalin-2, MSFI, NGAL, Oncogene 24p3, p25, HNL

## PRODUCT SPECIFICATION

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**Molecular Weight**

22.8 kDa (199aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 50mM NaCl

**Purity**

&gt; 90% 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**

Neutrophil gelatinase-associated lipocalin (NGAL), also known as LCN2, belongs to the calycin superfamily and Lipocalin family. LCN2 is an iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development. The binding of LCN2 to bacterial siderophores is important in the innate immune response to bacterial infection. Also LCN2 functions as a growth factor. LCN2 is strongly upregulated during inflammation and is upregulated by interleukin 1 (but not TNF alpha) in humans. Recombinant human LCN2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MQDSTSDLIP APPLSKVPLQ QNFQDNQFQG KWYVVGLAGN AILREDKDPQ KMYATIIYELK  
EDKSYNVTSTV LFRKKKCDYW IRTFVPGCQP GEFTLGNIKS YPGLTSYLVR VVSTNYNQHA MVFFKKVSQN REYFKITLYG  
RTKELTSELK ENFIRFSKSL GLPENHIVFP VPIDQCIDG

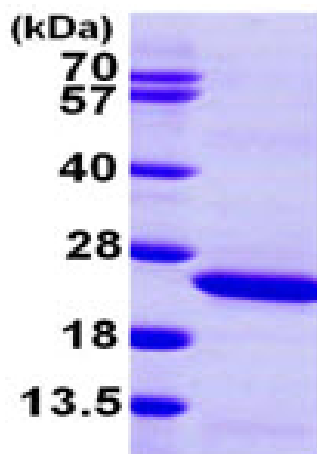
## General References

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

Yang J., et al. (2002) Mol. Cell 10:1045-1056

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)