Recombinant rat Lipocalin-2/NGAL protein

Catalog Number: ATGP3168

PRODUCT INFORMATION

Expression system
E.coli

Domain
21-198aa

UniProt No.
P30152

NCBI Accession No.
NP_570097.1

Alternative Names
Neutrophil gelatinase-associated lipocalin

PRODUCT SPECIFICATION

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

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

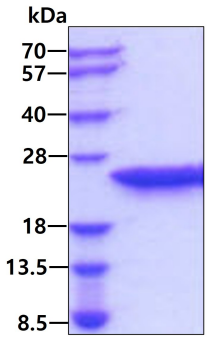
<MGSSHHHHHH SSGLVPRGSH MGS>QDSTQNL IPAPPLISVP LQPGFWTERF QGRWFVVGLA ANAVQKERQS RFTMYSTIYE LQEDNSYNVT SILVRGQGCR YWIRTFVPSS RPGQFTLGNI HSYPQIQSYD VQVADTDYDQ FAMVFFQKTS ENKQYFKVTL YGRTKGLSDE LKERFVSFAK SLGLKDNNIV FSVPTDQCID N

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.