Recombinant human Lipocalin-2/NGAL protein

Catalog Number: ATGP0908

PRODUCT INFORMATION

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

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
> 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

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

Recombinant human Lipocalin-2/NGAL protein

Catalog Number: ATGP0908

chromatography techniques.

Amino acid Sequence

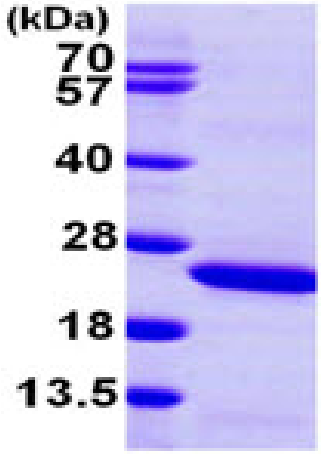
MGSSHHHHHH SSGLVPRGSH MQDSTSDLIP APPLSKVPLQ QNFQDNQFQG KWYVVGLAGN AILREDKDPQ KMYATIYELK EDKSYNVTSV LFRKKKCDYW IRTFVPGCQP GEFTLGNIKS YPGLTSYLVR VVSTNYNQHA MVFFKKVSQN REYFKITLYG RTKELTSELK ENFIRFSKSL GLPENHIVFP VPIDQCIDG

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



15% SDS-PAGE (3ug)

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