

Recombinant Human Lipocalin 2, His-tagged

Cat. No. LCN2-3409H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LCN2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT, 50mM NaCl.
Molecular Weight	22.8kDa (199aa) confirmed by MALDI-TOF.
Purity	> 90% by SDS – PAGE.
Concentration	1mg/ml (determined by Bradford assay).
Sequences Of Amino	MGSSHHHHHH SSGLVPRGSH MQDSTSDLIP APPLSKVPLQ QNFQDNQFQG KW

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Acids	YVVGLAGN AILREDKDPQ KMYATIELK EDKSYNVTSV LFRKKKCDYW IRTFV PGCQP GEFTLGNIKS YPGLTSYLVR VVSTNYNQHA MVFFKKV SQN REYFKITLYG RTKELTSELK ENFIRFSKSL GLPENHIVFP VPIDQCIDG.
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Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
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GENE INFORMATION

Gene Name	LCN2 lipocalin 2 [Homo sapiens]
Synonyms	LCN2; 25 kDa alpha-2-microglobulin- related subunit of MMP-9; lipocalin 2; 24p3; MSFI; NGAL; HNL; siderocalin; oncogene 24p3; OTTHUMP0000002- 2240; migration-stimulating factor in- hibitor; neutrophil gelatinase-associa- ted lipocalin; lipocalin 2 (oncogene 24p3); Neutrophil gelatinase-associa- ed lipocalin; p25; Lipocalin-2; Oncog- ene 24p3; OTTHUMP00000022238
Gene ID	3934
mRNA Refseq	NM_005564
Protein Refseq	NP_005555
MIM	600181
UniProt ID	P80188
Chromosome Location	9q34
Function	binding; transporter activity

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