

## Recombinant Mouse Lcn2 protein, Fc-tagged

Cat. No. Lcn2-3272M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Mouse Lcn2(Gln21-Asn200) fused with Fc tag at C-terminal was expressed in HEK293.

**Species** Mouse

**Source** HEK293

**ProteinLength** Gln21-Asn200

#### Description

Lipocalin-2, also known as Neutrophil Gelatinase-Associated Lipocalin (NGAL), is a secretory protein of the lipocalin superfamily. Lipocalin-2 contains a signal peptide that enables it to be secreted and form complexes with matrix metalloproteinase-9 (MMP-9) through disulfide bonds. Similar to other lipocalin family members, Lipocalin-2 is involved in diverse cellular processes, including the transport of small hydrophobic molecules, protection of MMP-9 from proteolytic degradation, and cell signaling. Furthermore, Lipocalin-2 can tightly bind to bacterial siderophore through a cell surface receptor, possibly serving as a potent bacteriostatic agent by sequestering iron, regulating innate immunity and protecting kidney epithelial cells from ischemia–reperfusion injury. This protein is mainly expressed in neutrophils and in lower levels in the kidney, prostate, and epithelia of the respiratory and alimentary tracts. Recent evidence also suggests its role as a biomarker for renal injury and inflammation.

**Form** Supplied as a 0.2 µm filtered solution of 20mM MES, 150mM NaCl, 10% Glycerol, pH

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5.5.

**AA Sequence**

QDSTQNLIPAPSLTVP LQPDFRSDQFRGRWYV VGLAGNAVQKKTEGSFTMYSTIY  
 ELQENNSYN VTSILVRDQDQGC RYWIRTFVPSSRAGQFTLGNMHRYPQVQSYNVQ  
 VATTDYNQFAMVFFRKTSE NKQYFKITLYGR TKELSPELKERFTRFAKSLGLKDDNII  
 FSVPTDQCIDNVDDIEGRMDEPKSCD KTHTCPPCPAPPELLGGPSVFLFPPKPKDTL  
 MISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHN AKTKPREEQYNSTYRVVSVL  
 TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTL PPSREEMTKNQ  
 VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSR WQ  
 QGNVFSCSVMHEALHNHYTQKSLSLSPGK

**Endotoxin**

Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.

**Purity**

Greater than 95% as determined by reducing SDS-PAGE.

**Storage**

Store at < -20 centigrade, stable for 6 months after receipt.  
 Please minimize freeze-thaw cycles.

**Shipping**

The product is shipped on dry ice/ice packs.

## GENE INFORMATION

**Gene Name**

Lcn2 lipocalin 2 [ *Mus musculus* ]

**Official Symbol**

Lcn2

**Synonyms**

LCN2; lipocalin 2; neutrophil gelatinase-associated lipocalin; p25; lipocalin-2; SV-40-induced 24P3 protein; secreted inducible protein 24; 24p3; Sip24; AW212229;

**Gene ID**

16819

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<b>mRNA Refseq</b>	<a href="#">NM_008491</a>
<b>Protein Refseq</b>	<a href="#">NP_032517</a>
<b>UniProt ID</b>	<a href="#">P11672</a>
<b>Chromosome Location</b>	2 B; 2 22.09 cM
<b>Function</b>	binding; iron ion binding; protease binding; protein binding; protein homodimerization activity; transporter activity;

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