

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

QDSTQNLIPAPSLLTVPLQPDFRSDQFRGRWYVVGLAGNAVQKKTEGSFTMYSTIY
ELQENNSYN VTSILVRDQDQGCRYWIRTFVPSSRAGQFTLGNMHRYPQVQSYNVQ
VATTDYNQFAMVFFRKTSE NKQYFKITLYGRTKELSPELKERFTRFAKSLGLKDDNII
FSVPTDQCIDNVDDIEGRMDEPKSCD KTHTCPPCPAPELLGGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHN AKTKPREEQYNSTYRVVSVL
TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTL PPSREEMTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSR 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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mRNA Refseq	NM_008491
Protein Refseq	NP_032517
UniProt ID	P11672
Chromosome Location	2 B; 2 22.09 cM
Function	binding; iron ion binding; protease binding; protein binding; protein homodimerization activity; transporter activity;

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