

Human CellExp™ Lipocalin-2 / LCN2, human recombinant

CATALOG #:	7460-10	10 µg
	7460-50	50 µg
ALTERNATE NAMES:	NGAL, LCN2, Lipocalin-2, 24p3, MSFI, Siderocalin; Oncogene 24p3; Neutrophil Gelatinase-associated Lipocalin; NGAL.	
SOURCE:	HEK 293 cells (Gln 21 – Gly 198)	
PURITY:	≥ 95% by SDS-PAGE gel	
MOL. WEIGHT:	This protein is fused with 6xhis tag at C-terminal and has a calculated MW of 22 kDa. The predicted N-terminal is Gln 21. DTT-reduced protein migrates as 23-25 kDa.	
ENDOTOXIN LEVEL:	<1 EU/µg by LAL method	
FORM:	Lyophilized	

FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

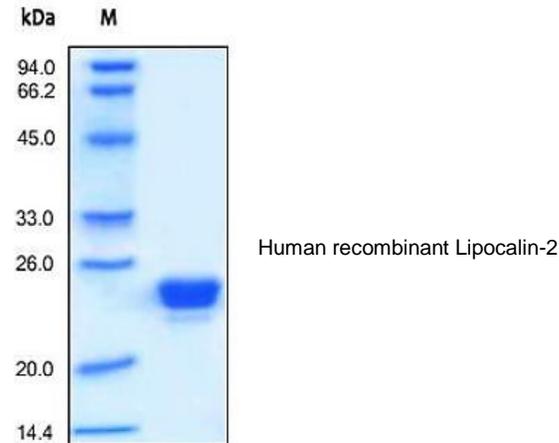
STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: Lipocalin-2 (LCN2), also known as oncogene 24p3 or neutrophil gelatinase-associated lipocalin (NGAL), MSFI, The binding of lipocalin-2 to bacterial siderophores is important in the innate immune response to bacterial infection. Upon encountering invading bacteria the toll-like receptors on immune cells stimulate the synthesis and secretion of lipocalin-2. Secreted lipocalin-2 then limits bacterial growth by sequestering iron-containing siderophores. Lipocalin-2 also functions as a growth factor. LCN2 is strongly upregulated during inflammation and is upregulated by interleukin 1 (but not TNF alpha) in humans. There are indications that some forms of acne could be

caused due to the gene not being transcribed, and that Isotretinoin corrects this. NFAT3 (NFATc4) NFAT by blocking the expression of LCN2 inhibits breast carcinoma cell motility. Recent studies have revealed that NGAL plays an important role in the physiopathology of chronic myeloid leukaemia (CML) mediated by BCR-ABL.

BIOLOGICAL ACTIVITY: Measured by its ability to bind Iron (III) dihydroxybenzoic acid. [Fe(DHBA)₃]. The binding of Fe (DHBA)₃ results in the quenching of Trp fluorescence in rhLCN2. rhLCN2 can bind >1.5 µM of Fe(DHBA)₃.



RELATED PRODUCTS:

- Human CellExp™ Lipocalin-2, mouse recombinant (7568-10, -50)
- Human CellExp™ Lipocalin-2, rat recombinant (7569-10, -50)
- Lipocalin-2, human recombinant (4928-10, -50, -1000)
- Lipocalin-2 Antibody (Cat # 3819-100)
- Lipocalin-2 Antibody (Cat # 3902-100)
- Lipocalin-2 Blocking peptide (Cat # 3819BP-50)
- Human CellExp™ RBP4, human recombinant (Cat. No. 7563-10, -50)
- RBP4, rat recombinant (Cat. No. 7567-10, -50)
- RBP4, mouse recombinant (Cat. No. 7565-10, -50)
- Human CellExp™ RBP4, mouse recombinant (Cat. No. 7564-10, -50)
- Human CellExp™ RBP4, rat recombinant (Cat. No. 7566-10, -50)
- RBP4, human recombinant (Cat. No. 4940-20, -1000)
- RBP4 Antibody (Cat. No. 3716-100)
- RBP4 (human) Competitive ELISA Kit (Cat. No. K4911-100)
- RBP4 (human) ELISA Kit (Cat. No. K4912-100)
- RBP4 (mouse/rat) ELISA Kit (Cat. No. K4913-100)

FOR RESEARCH USE ONLY! Not to be used in humans.