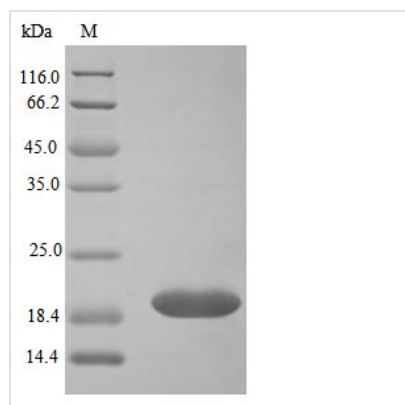




Recombinant Human Neutrophil gelatinase-associated lipocalin (LCN2) (Active)

Product Code	CSB-AP000461HU
Abbreviation	Recombinant Human LCN2 protein (Active)
Uniprot No.	P80188
Form	Lyophilized powder
Storage Buffer	0.2 µm filtered PBS, pH 7.4, with 0.05 % Tween-20, lyophilized
Product Type	Other
Immunogen Species	Homo sapiens (Human)
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human TF-1 cells is less than 0.5 ng/ml, corresponding to a specific activity of $>2.0 \times 10^6$ IU/mg.
Purity	$>95\%$ as determined by SDS-PAGE.
Sequence	QDSTSDLIPA PPLSKVPLQQ NFQDNQFQ GK WYVVGLAGNA ILREDKDPQK MYATIELKE DKSYNVTSVL FRKKKCDYWI RTFVPGCQPG EFTLGNIKSY PGLTSYLVRV VSTNYNQHAM VFFKKVSQNR EYFKITLYGR TKELTSELKE NFIRFSKSLG LPENHIVFPV PIDQCIDG
Research Area	Cancer
Source	E.Coli
Target Names	LCN2
Expression Region	21-198aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag-Free
Mol. Weight	20.5 kDa
Protein Length	Full Length of Mature Protein
PubMed ID	8060329; 9339356; 14702039; 15164053; 15489334; 7835423; 7683678; 1281792; 12453413; 15084671; 16335952; 16740002; 19229297; 19159218; 21269460; 10684642; 10339412; 12453412
Image	



Description

Recombinant Human LCN2 is a full-length mature protein representing the 21-198aa expression region of Neutrophil gelatinase-associated lipocalin, a crucial biomarker for various cancer studies. Produced in *E. coli*, this tag-free protein boasts a purity of over 95% as determined by SDS-PAGE and HPLC, with endotoxin levels below 1.0 EU/μg as measured by the LAL method. Fully biologically active, LCN2 exhibits an ED₅₀ of less than 0.5 ng/mL in a cell proliferation assay using human TF-1 cells, corresponding to a specific activity of $> 2.0 \times 10^6$ IU/mg. The product is provided as a lyophilized powder for convenient storage and application in research settings.

Endotoxin

Less than 1.0 EU/μg as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.