

LCN1 recombinant protein

LCN1 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257979

HOST
HEK293 Cells

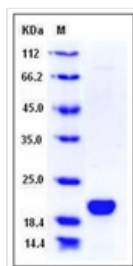
PRODUCT SYNONYMS

LCN1; LCN1 Protein; Human; Recombinant (His Tag); Human LCN1/VEGP/Lipocalin-1 Protein (His Tag); Lipocalin 1 Protein; MGC71975 Protein; PMFA Protein; TLC Protein; TP Protein; VEGP Protein; lipocalin 1; LCN1 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	≥95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4, 5% Trehalose, 5% Mannitol, 0.01% Tween-80.
Sequence	Met1-Asp176
Source Note	HEK293 Cells-derived Human LCN1 / VEGP / Lipocalin-1 Protein (His Tag) Met1-Asp176, Accession # NP_002288.1
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	His 19
Tag	C-His
Protein Construction	A DNA sequence encoding the human LCN1 (NP_002288.1) extracellular domain (Met 1-Asp176) was fused with a polyhistidine tag at the C-terminus.
Reconstitution	Reconstituted with sterile deionized water to 0.25 mg/mL
Molecular Mass Note	The secreted recombinant human LCN1 consists of 169 amino acids and has a predicted molecular mass of 19 kDa The apparent molecular mass of the protein is approximately 20 kDa in SDS-PAGE under reducing conditions.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for LCN1 recombinant protein	Background: Lipocalin-1, also known as Von Ebner gland protein, VEG protein, Tear Prealbumin, VEGP, Tear lipocalin, and LCN1 is a secreted protein that belongs to the calycin superfamily and Lipocalin family. Human Lipocalin-1/VEGP was originally described as a major protein of human tear fluid, which was thought to be tear specific. Lipocalin-1/VEGP is identical to lingual von Ebner's gland protein and is also produced in the prostate, nasal mucosa, and tracheal mucosa. Homologous proteins have been found in the rat, pig, and probably dog and horse. Lipocalin-1/VEGP is an unusual lipocalin member, because of its high promiscuity for relative insoluble lipids and binding characteristics that differ from other members. Lipocalin-1/VEGP acts as the principal lipid-binding protein in tear fluid, a more general physiological function has to be proposed due to its wide distribution and properties. Lipocalin-1/VEGP would be ideally suited for scavenging of lipophilic, potentially harmful substances and thus might act as a general protection factor of epithelia. Lipocalin-1/LCN1 could play a role in taste reception. It could be necessary for the concentration and delivery of sapid molecules in the gustatory system. Lipocalin-1/LCN1 can bind various ligands, with chemical structures ranging from lipids and retinoids to the macrocyclic antibiotic rifampicin and even to microbial siderophores. It exhibits an extremely wide ligand pocket.
References	Lassagne H. et al., 1993, Exp. Eye Res. 56:605-609. Redl,B. et al., 2000, Biochim Biophys Acta 1482 (1-2):241-8. Wojnar P. et al., 2001, J. Biol. Chem. 276:20206-20212. Wojnar P. et al., 2003, J. Biol. Chem. 278:16209-16215. Breustedt D.A. et al., 2005, J. Biol. Chem. 280:484-493.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504963
NCBI GeneID	3933
NCBI Accession #	NP_002288.1
NCBI GenBank Nucleotide #	NM_002297.3
UniProt Accession #	P31025; Q5T8A1
Molecular Weight	Predicted Molecular Mass 18.89 kDa
NCBI Official Full Name	lipocalin-1 isoform 1
NCBI Official Synonym Full Names	lipocalin 1
NCBI Official Symbol	LCN1
NCBI Official Synonym Symbols	TP; TLC; PMFA; VEGP
NCBI Protein Information	lipocalin-1; VEG protein; tear prealbumin; Von Ebner gland protein; lipocalin 1 (tear prealbumin); protein migrating faster than albumin
UniProt Protein Name	Lipocalin-1
UniProt Gene Name	LCN1
UniProt Synonym Gene Names	VEGP; Tlc; TP; VEG protein
UniProt Entry Name	LCN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/lcn1-recombinant-protein-hek293/257979>