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Datasheet for ABIN7520291
Lipocalin 1 Protein (LCN1) (His tag)

Overview

Quantity:	100 µg
Target:	Lipocalin 1 (LCN1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Lipocalin 1 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Lipocalin-1/LCN1 Protein
Sequence:	HHLLASDEEI QDVSGTWYLK AMTVDREFPE MNLESVTPMT LTTLEGGNLE AKVTMLISGR CQEVKAVLEK TDEPGKYTAD GGKHVAYIIR SHVKDHYIFY CEGELHGKPV RGVKLVGRDP KNNLEALEDF EKAAGARGLS TESILIPRQS ETCSPGSD
Specificity:	His19-Asp176
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg
Biological Activity Comment:	Measured by its ability to inhibit active Cathepsin V cleavage of a fluorogenic peptide substrate Z-LR-AMC. The IC50 value is <2.94 nM.

Target Details

Target: Lipocalin 1 (LCN1)

Alternative Name: Lipocalin-1/LCN1 ([LCN1 Products](#))

Background: Description: 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.

Name: LCN1,PMFA,TLC,TP,VEGP

Gene ID: 3933

UniProt: [P31025](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Handling

Storage: -20 °C,-80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.