

## LCN1/Lipocalin-1 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P75905
<b>Synonyms:</b>	Lipocalin-1; Tear lipocalin; Tlc; TP; VEG protein; VEGP
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P31025 (H19-D176)
<b>Gene ID:</b>	3933
<b>Molecular Weight:</b>	Approximately 20 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           H H L L A S D E E I    Q D V S G T W Y L K    A M T V D R E F P E    M N L E S V T P M T            L T T L E G G N L E    A K V T M L I S G R    C Q E V K A V L E K    T D E P G K Y T A D            G G K H V A Y I I R    S H V K D H Y I F Y    C E G E L H G K P V    R G V K L V G R D P            K N N L E A L E D F    E K A A G A R G L S    T E S I L I P R Q S    E T C S P G S D         </p>
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>LCN1 (Lipocalin-1) protein is implicated in taste reception and might play a crucial role in the concentration and delivery of sapid molecules within the gustatory system. Known for its broad ligand-binding capabilities, LCN1 interacts with various ligands, spanning lipids, retinoids, macrocyclic antibiotic rifampicin, and microbial siderophores, owing to its remarkably wide ligand pocket. The protein predominantly exists as a monomer but may also form homodimers. Additionally, LCN1 engages in an interaction with LMBR1L, facilitating the endocytosis of LCN1.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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