

Lipocalin-2/NGAL Protein, Mouse (HEK293, C-His)

Cat. No.:	HY-P70658A
Synonyms:	Neutrophil gelatinase-associated lipocalin; NGAL; Lipocalin-2; SV-40-induced 24P3 protein; Siderocalin LCN2; p25; LCN2
Species:	Mouse
Source:	HEK293
Accession:	P11672 (Q21-N200)
Gene ID:	16819
Molecular Weight:	Approximately 20-28 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<p>Q D S T Q N L I P A P S L L T V P L Q P D F R S D Q F R G R W Y V V G L A G N A</p> <p>V Q K K T E G S F T M Y S T I Y E L Q E N N S Y N V T S I L V R D Q D Q G C R Y</p> <p>W I R T F V P S S R A G Q F T L G N M H R Y P Q V Q S Y N V Q V A T T D Y N Q F</p> <p>A M V F F R K T S E N K Q Y F K I T L Y G R T K E L S P E L K E R F T R F A K S</p> <p>L G L K D D N I I F S V P T D Q C I D N</p>
Biological Activity	Measured by its ability to bind Iron(III) dihydroxybenzoic acid [Fe(DHBA)3] that Incubate at room temperature for 10 minutes. The binding of Fe(DHBA)3 results in the quenching of Trp fluorescence in NGAL. $\leq 1.852 \mu\text{M}$ of Fe(DHBA)3 can be bound.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Histidine-HCl, 8% Trehalose, 2% Glycine, 50 mM NaCl, 0.05% Tween 80, pH 6.5 or PBS, pH 7.4.
Endotoxin Level	<1 EU/ μg , determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g/mL}$ in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>NGAL is a 25 kDa protein belonging to the lipocalin superfamily, which is first known as an antibacterial factor of natural immunity, and an acute-phase protein.</p> <p>NGAL is initially found in activated neutrophils, and other cells, like kidney tubular cells, may produce NGAL in response to</p>
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various insults. lipocalin-2 (LCN2/NGAL) has been implicated in a variety of processes including cell differentiation, proliferation, survival, and morphogenesis. NGAL has anti-tumoral and anti-metastatic effects in neoplasias, for example, the colon, ovary and pancreas^[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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