

# Recombinant Human NGAL/Lipocalin-2 Protein (His Tag, E.coli)



Catalog Number:PKSH032807

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

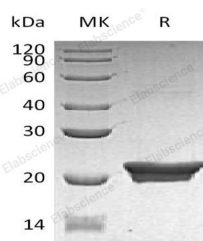
## Description

<b>Synonyms</b>	Neutrophil gelatinase-associated lipocalin;NGAL;25 kDa alpha-2-microglobulin-related subunit of MMP-9;Lipocalin-2;Oncogene 24p3;Siderocalin LCN2;p25;HNL;NGAL
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Gln21-Gly198
<b>Accession</b>	P80188
<b>Calculated Molecular Weight</b>	21.8 kDa
<b>Observed molecular weight</b>	20-23 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of PBS, 50% Glycerol, pH 7.4.
<b>Reconstitution</b>	Not Applicable

## Data



> 90 % as determined by reducing SDS-PAGE.

## Background

Neutrophil gelatinase-associated lipocalin(LCN2) is a secreted protein and belongs to the calycin superfamily. This protein is released from injured tubular cells after various damaging stimuli; is already known by nephrologists as one of the most promising biomarkers of incoming Acute Kidney Injury (AKI). Recent evidence also suggests its role as a biomarker in a variety of other renal and non-renal conditions. Moreover; recent studies seem to suggest a potential involvement of this factor also in the genesis and progression of chronic kidney diseases. NGAL is the first known mammalian protein which specifically binds organic molecules called siderophores; which are high-affinity iron chelators. NGAL; first known as an antibacterial factor of natural immunity; and an acute phase protein; is currently one of the most interesting and enigmatic proteins involved in the process of tumor development. acting as an intracellular iron carrier and protecting MMP9 from proteolytic degradation; NGAL has a clear pro-tumoral effect; as has already been observed in different tumors (e.g. breast; stomach; oesophagus; brain) in humans. In thyroid carcinomas; NGAL is strongly induced

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by NF- $\kappa$ B; an important factor involved both in tumor growth and in the link between chronic inflammation and neoplastic development. Thus; Lipocalin-2 (LCN2/NGAL) has been implicated in a variety of processes including cell differentiation; proliferation; survival and morphogenesis.

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