

# Mouse NGAL/Lipocalin-2 Protein

Cat. No. NGL-MM201

## Description

<b>Source</b>	Recombinant Mouse NGAL/Lipocalin-2 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gln21-Asn200.
<b>Accession</b>	P11672
<b>Molecular Weight</b>	The protein has a predicted MW of 47.5 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

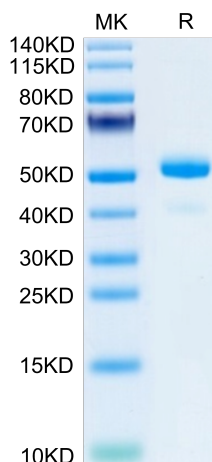
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in 50mM MES, 150mM NaCl (pH 6.5). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in 50mM MES, 150mM NaCl (pH 6.5).
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Acute kidney injury (AKI) is one of the most common complications of various serious conditions, and early diagnosis is therefore critical for the treatment of AKI. Recent evidence demonstrates that neutrophil gelatinase-associated lipocalin (NGAL) is closely associated with AKI. Several experimental and clinical studies have shown that the expression of urine and serum NGAL increases significantly in AKI. NGAL shows potential to be a new effective early biochemical marker of AKI. Further studies are needed to confirm the significant advantages of NGAL in the diagnosis of early AKI and its value in clinical applications.

## Assay Data

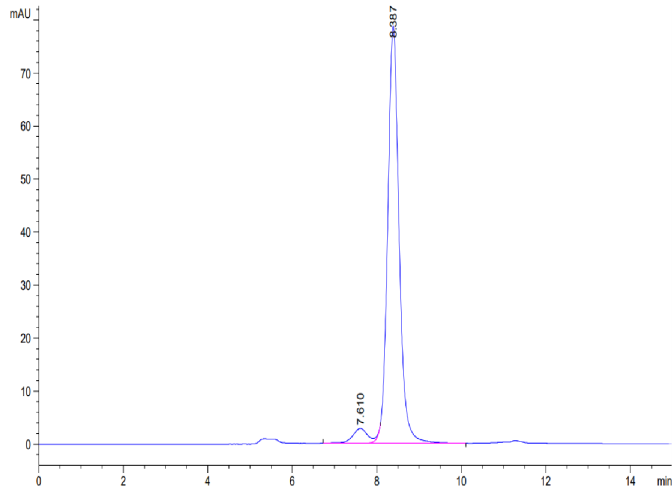
### Tris-Bis PAGE



Mouse NGAL/Lipocalin-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



The purity of Mouse NGAL/Lipocalin-2 is greater than 95% as determined by SEC-HPLC.