

## General Information

### Gene Name Synonym

Alpha-2-microglobulin-related protein; Alpha-2U globulin-related protein; Lipocalin-2; Siderocalin LCN2; p25

### Protein Construction

A DNA sequence encoding the rat LCN2 (P30152) (Met 1-Asn 198) was fused with a polyhistidine tag at the C-terminus.

### Organism

Rat

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

Measured by its ability to bind Iron(III) dihydroxybenzoic acid [Fe(DHBA)<sub>3</sub>]. The binding of Fe(DHBA)<sub>3</sub> results in the quenching of Trp fluorescence in Lipocalin2. It binds >1.0 μM of Fe(DHBA)<sub>3</sub>.

### Purity

> 90 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Gln 21

### Molecular Mass

The recombinant rat LCN2 comprises 188 amino acids with and has a predicted molecular mass of 21.9 kDa. It migrates as an approximately 25 kDa band in reduced SDS-PAGE.

### Formulation

Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.0

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

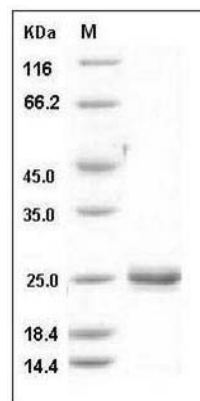
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Rat LCN2 / NGAL Protein (His Tag) SDS-PAGE