

Recombinant Rat Lipocalin-2/NGAL/LCN2 Protein

Catalog No.: RP01225 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	170496	P30152

Tags

C-His

Synonyms

NGAL;LCN2;Lipocalin-2;24p3;MSFI;LCN2

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of 20mM Tris, 500mM NaCl, pH 7.0. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact

 | 400-999-6126

 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

Background

Basic Information

Description

Recombinant Rat Lipocalin-2/NGAL/LCN2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln21-Asn198) of rat Lipocalin-2/NGAL (Accession #NP_570097.1.) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to bind Iron(III) dihydroxybenzoic acid [Fe(DHBA)3]. The binding of Fe(DHBA)3 results in the quenching of Trp fluorescence in Lipocalin2. It binds >51330 μM of Fe(DHBA)3.

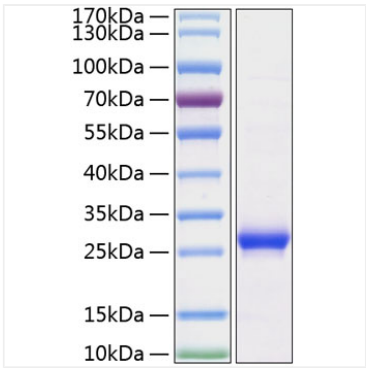
Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

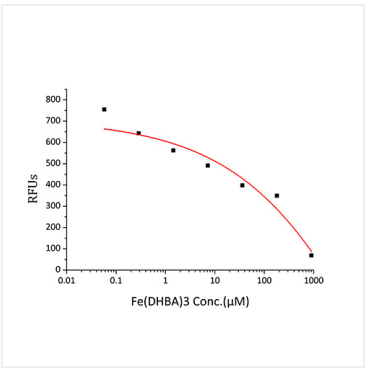
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Rat Lipocalin-2/NGAL/LCN2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 27 kDa.



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