

**Product Name: Recombinant Human LMCD1 (N, C-6His)**  
**Catalog #: PEH1089**



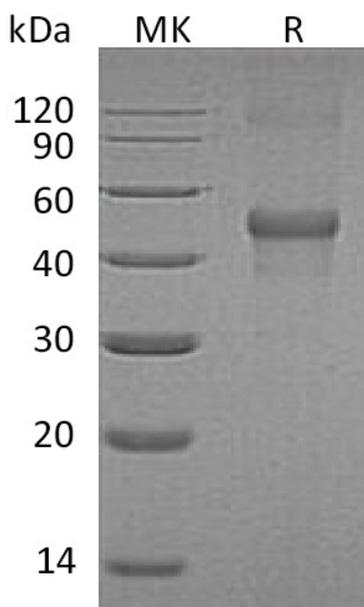
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## Summary

<b>Name</b>	LIM and cysteine-rich domains protein 1/LMCD1/Dyxin
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Human LIM And Cysteine-rich Domains Protein 1 is produced by our E.coli expression system and the target gene encoding Met1-Ser365 is expressed with a 6His tag at the N-terminus, 6His tag at the C-terminus.
<b>Accession #</b>	Q9NZU5
<b>Host</b>	E.coli
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	44 KDa
<b>Formulation</b>	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM EDTA, pH 8.0.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	

## SDS-PAGE image

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### **Alternative Names**

LIM and cysteine-rich domains protein 1; LMCD1; Dyxin

### **Background**

LMCD1 is transcriptional cofactor which contains a cysteine-rich domain in the N-terminal region and 2 LIM domains in the C-terminal region. It also has several potential phosphorylation and N-myristoylation sites and a single potential N-glycosylation site. LMCD1 is expressed in many tissues with highest abundance in skeletal muscle. LMCD1 restricts GATA6 function by inhibiting DNA-binding, resulting in repression of GATA6 transcriptional activation of downstream target genes. It plays a critical role in the development of cardiac hypertrophy via activation of calcineurin/nuclear factor of activated T-cells signaling pathway.

### **Note**

For Research Use Only , Not for Diagnostic Use.