



LD Biopharma, Inc.
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<http://www.ldbiopharma.com>

- PRODUCT DATA SHEET -

Name of Product: Recombinant Human CLEC11A Protein
Catalog Number: hRP-1188
Manufacturer: LD Biopharma, Inc.

Introduction

Human C-type lectin domain family 11 member A (CLEC11A) gene encodes a member of the C-type lectin superfamily. The encoded protein is a secreted sulfated glycoprotein and functions as a growth factor for primitive hematopoietic progenitor cells. Recent data indicated that CLEC11a plays a major role in enhanced erythropoiesis during malarial infection. An alternative splice variant has been described but its biological nature has not been determined.

Full-length extracellular domain of human CLEC11A cDNA (22 – 323 aa, derived from BC005810) was constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal. This protein is expressed in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: CLEC11A (CLECSF3; LSLCL; p47; SCGF)
Accession Number: NP_002966
Species: Human
Size: 50 µg / Vial
Composition: 0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Da Riva,L., et al., *Proteomic detection of a large amount of SCGFalpha in the stroma of GISTs after imatinib therapy.* J Transl Med 9, 158 (2011)



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Ouma,C., et al., *A novel functional variant in the stem cell growth factor promoter protects against severe malarial anemia.* Infect. Immun. 78 (1), 453-460 (2010).

Applications

1. May be used for in vitro -glycosylated CLEC11A protein mediated HSC regulation study with this protein as either coating matrix protein or as soluble factor.
2. May be used for CLEC11A protein – protein interaction assay.
3. May be used as enzymatic substrate for various proteases.
4. May be used for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGHHHHHENLYFQGGEFARGAEREWEGGWGGAQEEEREREALMLKHLQEALG
LPAGRGDENPAGTVEGKEDWEMEEDQGEEEEEEATPTPSSGSPSPPTPEDIVTYILGRLAGLDA
GLHQLHVRLHALDTRVVELTQGLRQLRNAAGDTRDAVQALQEAQGRAEREHGRLEGCLKGLRLG
HKCFLLSRDFEAQAAAQARCTARGGSLAQPADRQQMEALTRYLRAALAPYNWPVWLGVHDRRAE
GLYLFENGQRVSFFAWHRSPRPELGAQPSASPHPLSPDQPNGGTLENCVAQASDDGSWWDHDCQ
RRLYYVCEFPF