LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human SERPINI2 Protein
Catalog Number: hRP-1194
Manufacturer: LD Biopharma, Inc.

Introduction

Human SERPINI2 gene encodes a member of a family of proteins that acts as inhibitors of serine proteases. These proteins function in the regulation of a variety of physiological processes, including coagulation, fibrinolysis, development, malignancy, and inflammation. Expression of the encoded protein may be down-regulated during pancreatic carcinogenesis. Alternative splicing results in multiple transcript variants for this gene.

Full-length mature form of human SERPINI2 cDNA (19 - 405 aa, Isoform-II, derived from BC027859) 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:	SERPINI2 (MEPI; PANCPIN; PI14; TSA2004)
Accession Number:	NP_006208
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

Hysi,P.G., et al., *Common polymorphisms in the SERPINI2 gene are associated with*

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refractive error in the 1958 British Birth Cohort. Invest. Ophthalmol. Vis. Sci. 53 (1), 440-447 (2012)

Xiao,G., et al., *Suppression of breast cancer growth and metastasis by a serpin myoepithelium-derived serine proteinase inhibitor expressed in the mammary myoepithelial cells*. Proc. Natl. Acad. Sci. U.S.A. 96 (7), 3700-3705 (1999)

Applications

1. May be used for in vitro SERPINI2 mediated cancer cell metastasis regulation study with this protein as either coating matrix protein or soluble factor.
2. May be used as SERPINI2 protein-protein interaction assay.
3. As enzymatic substrate for various proteases.
4. As antigen for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGHHHHHHENLYFQGGEFCSAMKNTEFAVDLYQEVSLSHKDNIIFSPLGITLV
LEMVQLGAKGKAQQQIRQTLKQQETSAGEEFFVLKSFFSAISEKKQEFTFNLANALYLQEGFTV
KEQYLHGNKEFFQSAIKLVDFQDAKACAEMISTWVERKTDGKIKDMFSGEEFGPLTRLVLVNAI
YFKGDWKQKFRKEDTQLINFTKKNGSTVKIPMMKALLRTKYGYFSESSLNYQVLELSYKGDEFS
LIIILPAEGMDIEEVEKLITAQQILKWLSEMQEEEVEISLPRFKVEQKVDFKDVLYSLNITEIF
SGGCDLSGITDSSEVYVSQVTQKVFFEINEDGSEAATSTGIHIPVIMSLAQSQFIANHPFLFIM
KHNPTESILFMGRVTNPDTQEIKGRDLDSL