

Recombinant Human SLBP, His-tagged

Cat. No. SLBP-7795H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Azurocidin produced by transfected human cell is a secreted protein with sequence (Ile27Pro250) of Human AZU1 fused with a polyhistidine tag at the Cterminus.
Species	Human
Source	HEK293
Description	Azurocidin is an Azurophil granule antibiotic protein, with monocyte chemotactic and antibacterial activity. The Azurophil granules, specialized lysosomes of the neutrophil, contain at least 10 proteins implicated in the killing of microorganisms. Azurocidin is a member of the serine protease family that includes Cathepsin G, Neutrophil Elastase (NE), and Proteinase 3 (PR3), however, Azurocidin is not a serine proteinase since the active site serine and histidine residues are replaced. Human Azurocidin together with NE and PR3 are expressed coordinately and are packaged together into azurophil granules during neutrophil differentiation. Azurocidin has been identified as a modulator of endothelial permeability and an important multifunctional inflammatory mediator. Neutrophils arriving first at sites of inflammation release Azurocidin which acts in a paracrine fashion on endothelial cells causing the development of intercellular gaps and allowing leukocyte extravasation. Azurocidin thus be regarded as a reasonable therapeutic target for a variety of inflammatory disease conditions.
Form	Lyophilized from a 0.2 μ M filtered solution of 20mM HEPES, 150mM NaCl, pH 7.5

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AA Sequence	IVGGRKARPR QFPFLASIQN QGRHFCGGAL IHARFVMTAA SCFQSQNPGV STVVLGAYDL RRRERQSRQ TFSISSMSEN GYDPQQNLND LMLQLDREA NLTSSVTILP LPLQNATVEA G TRCQVAGW GSQRSGGRLS RFPRFVNVTV TPEDQCRPNN VCTGVLTRRG GICNGDGGTP LV CEGLAHG VASFSLGPCG RGPDDFFTRVA LFRDWIDGVL NNPGGPGVDH HHHHH*
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Notes	For research use only.
Storage	Lyophilized protein should be stored at less than 20°C. though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7°C. for 2-7 days.Aliquots of reconstituted samples are stable at less than 20°C. for 3 months.

GENE INFORMATION

Gene Name	SLBP stem-loop binding protein [Homo sapiens]
Official Symbol	SLBP
Synonyms	SLBP; stem-loop binding protein; stem loop (histone) binding protein; histone RNA hairpin-binding protein; HBP; histone binding protein; hairpin binding protein, histone; histone stem-loop binding protein; histone stem-loop-binding protein; stem-loop (histone) binding protein;
Gene ID	7884
mRNA Refseq	NM_006527
Protein Refseq	NP_006518

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MIM	602422
UniProt ID	Q14493
Chromosome Location	4p16.3
Pathway	Cleavage of Growing Transcript in the Termination Region, organism-specific biosystem; Gene Expression, organism-specific biosystem; Processing of Capped Intron-Containing Pre-mRNA, organism-specific biosystem; Processing of Capped Intronless Pre-mRNA, organism-specific biosystem; RNA Polymerase II Transcription, organism-specific biosystem; RNA Polymerase II Transcription Termination, organism-specific biosystem; SLBP Dependent Processing of Replication-Dependent Histone Pre-mRNAs, organism-specific biosystem;
Function	histone pre-mRNA DCP binding; histone pre-mRNA stem-loop binding; mRNA binding; protein binding;

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