

Native Human Serpin Peptidase Inhibitor, Clade A (alpha-1 antiproteinase, antitrypsin), Member 3

Cat. No. SERPINA3-5331H Lot. No. (See product label)

SPECIFICATION

Product Overview	Native human SERPINA3 expressed by Human Plasma
Species	Human
Source	Human Plasma
Description	SERPINA3 is an alpha globulin glycoprotein that is a member of the serine proteinase inhibitor (serpin) family. It inhibits the activity of certain proteinases, such as cathepsin G that are found in neutrophils, and chymases found in mast cells. This activity protects some tissues, such as the lower respiratory tract, from damage caused by proteolytic enzymes. SERPINA3 is produced in the liver, and is an acute phase protein that is induced during inflammation found at concentrations of 45 mg/100 ml. Clinically, it is elevated in inflammatory conditions, some malignancies, Crohn's disease, ulcerative colitis, and burn injuries.
Form	Lyophilized from 20mM Tris-HCl pH 7.4 + 150 mM NaCl.
Purity	>95% by SDS-PAGE.
Storage	Store at -70°C .

GENE INFORMATION

Gene Name	SERPINA3 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin),
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	member 3 [Homo sapiens]
Official Symbol	SERPINA3
Synonyms	SERPINA3; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3; AACT, alpha 1 antichymotrypsin , serine (or cysteine) proteinase inhibitor, clade A (alpha 1 antiproteinase, antitrypsin), member 3; alpha-1-antichymotrypsin;
Gene ID	12
mRNA Refseq	NM_001085
Protein Refseq	NP_001076
MIM	107280
UniProt ID	P01011
Chromosome Location	14q32.1
Pathway	Selenium Pathway, organism-specific biosystem;
Function	DNA binding; peptidase inhibitor activity; protein binding; serine-type endopeptidase inhibitor activity; serine-type endopeptidase inhibitor activity;