

SERPINA3

Native Human Alpha-1-Antichymotrypsin

Catalog No.	CSI19774A	Quantity:	0.5 mg
	CSI19774B		1.0 mg

Alternate Names: AACT, ACT, GIG24, GIG25

Description: Alpha-1-Antichymotrypsin (ACT) 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. ACT 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. The PSA-ACT complex level is considered a biomarker for prostate cancer.

Gene ID: 12

Molecular Weight: 64 kDa

Source: Human Plasma

Formulation: Lyophilized from 20 mM Tris-HCl pH 7.4, + 150 mM NaCl

Purity: >95% by SDS-PAGE

Storage & Stability: Store lyophilized protein at -70°C. Stable for 3 years from delivery.

Certification: Shown to be non-reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

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