



## Monoclonal antibody to PAI-1, clone 10H12, hIgG1

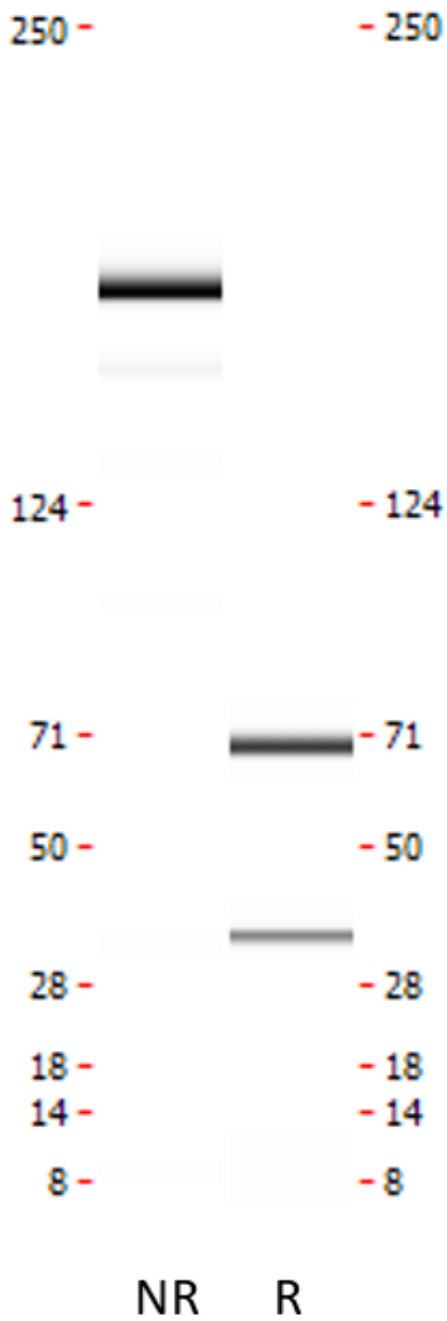
Catalogue #	R1-221-100
Immunogen:	Recombinant PAI-1 protein
Immunogen Description:	Recombinant PAI-1 protein produced by CHO-based Icosagen Cell factory Ltd. proprietary suspension cell line.
Alternative Names:	Plasminogen activator inhibitor-1, Serpin E1, PLANH1, endothelial plasminogen activator inhibitor, SERPINE1.
Uniprot ID:	P05121
Source:	Human
Clonality:	Human monoclonal
Clone:	10H12
Class:	hIgG1
Reactivity:	Binds to PAI-1 protein.
Dissociation constant ( $K_D$ ):	Summary of antibody screening to soluble PAI-1 using an Octet system. KD, M: 1.75E-09
Application:	ELISA, CLIA
Protocol:	Monoclonal antibody working amount has to be established practically for each particular antigen and assay format.
Kd:	2.809 x 10 <sup>-09</sup> M
Purification:	Protein A affinity chromatography followed by desalting
Purity:	>95%
Concentration:	1 mg/ml
Buffer:	PBS, pH 7.4
QC:	LabChip protein analysis, analytical HPLC-SEC, Octet binding.

Related Products: PAI-1 antibody clone 10H12 has been identified as a recommended detection antibody with clone 9G6 (cat# R1-225-100) and clone 11D6 (cat# R1-222-100), and as a capture antibody with clone 11E1 (cat# R1-226-100).

Shipping: Shipped on dry ice.

Storage: Store at -20 °C to -70 °C. Avoid multiple freeze-thaw cycles.

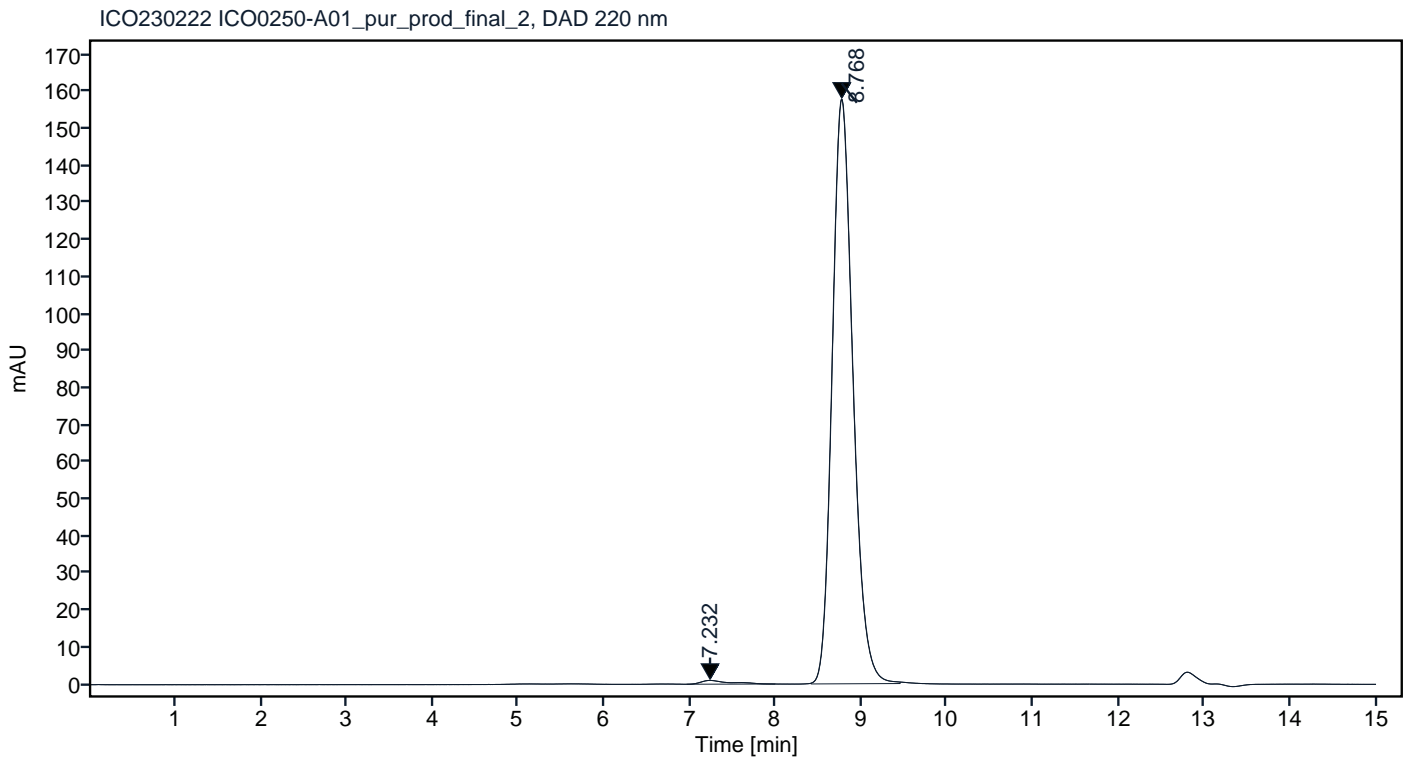
Background: Plasminogen activator inhibitor-1 (PAI-1) also known as Serpin E1, is a serine protease inhibitor and important regulator of plasminogen/plasmin system. PAI-1 has been linked to many (patho)physiological conditions such as cardiovascular disease (CVD), metabolic disturbances, aging, cancer, tissue fibrosis, inflammation, and neurodegenerative diseases. PAI-1 has great potential as a biomarker for the different disease classes as mentioned above, and a drug target in cardiovascular diseases in particular.



**Figure 1.** CE-SDS virtual gel output (LabChip GX) for monoclonal antibody to PAI-1, clone 10H12 under non-reduced (NR, left) and reduced (R, right) conditions.

Peak #	RT (min)	Estimated Mw (Da)*	Area	Area %
1	7.232	401551	23.44	0.87
2	8.768	144383	2662.80	99.13

## Chromatogram

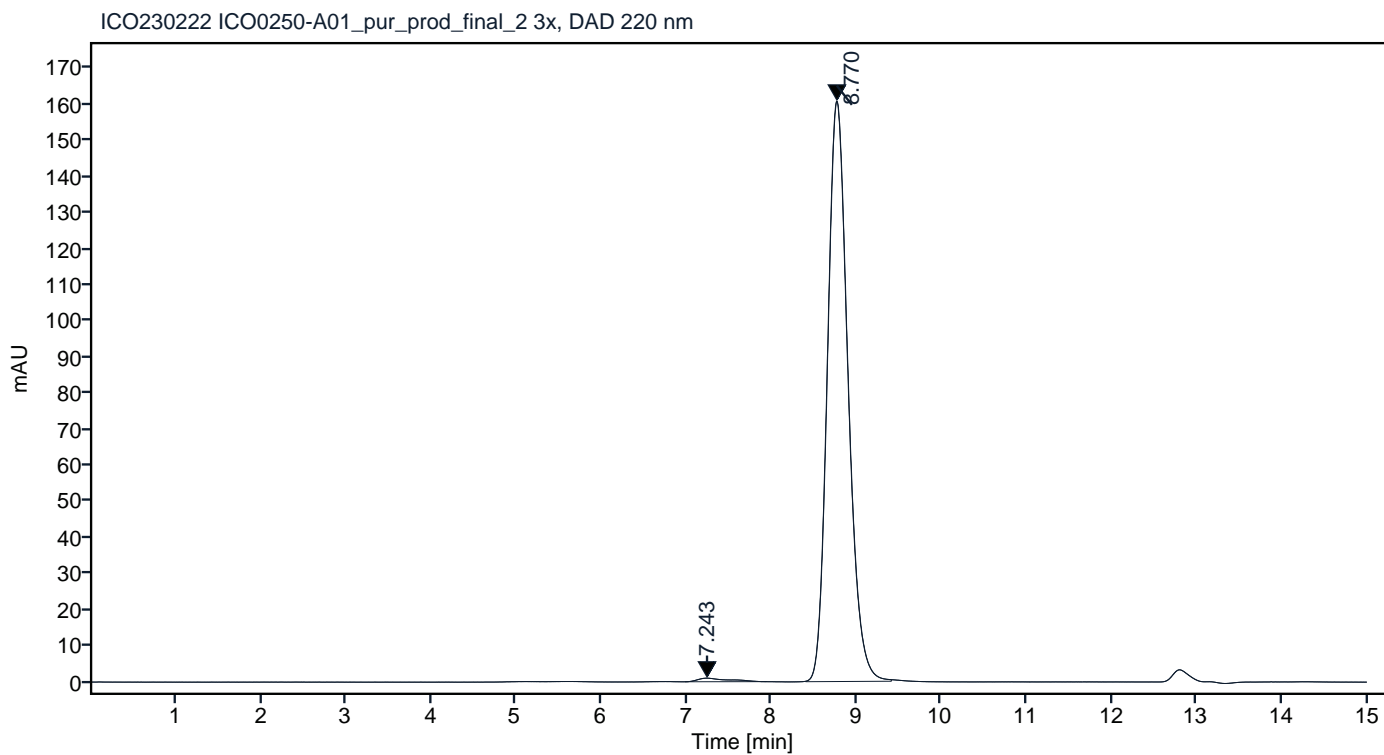


\*Calculated using calibration curve obtained from AdvanceBio SEC 300A Protein Standard (p/n 5190-9417) retention times. Peaks with integrated areas below 0.5% of the calculated values were excluded from analysis.

**Figure 2.** Analytical SEC of final product.

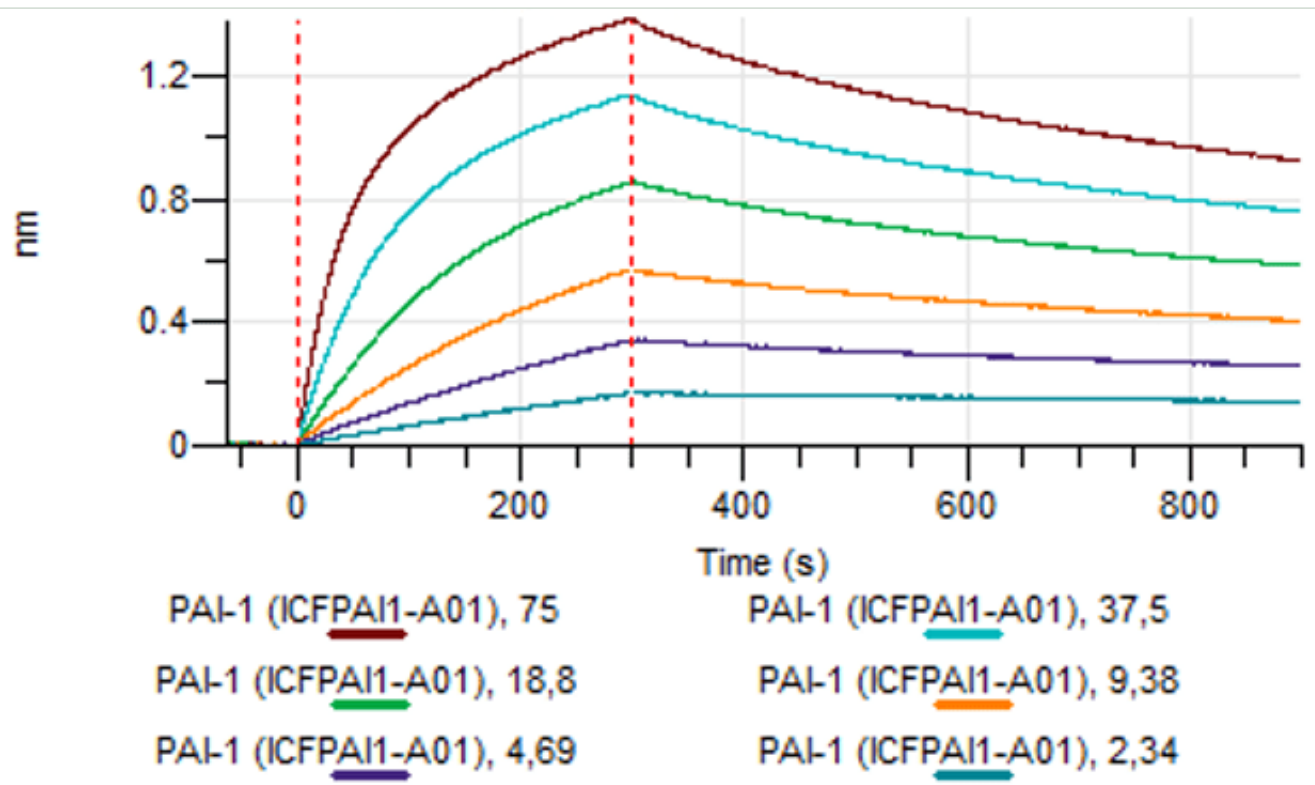
Peak #	RT (min)	Estimated Mw (Da)*	Area	Area %
1	7.243	397501	24.82	0.91
2	8.770	144268	2705.69	99.09

## Chromatogram



\*Calculated using calibration curve obtained from AdvanceBio SEC 300A Protein Standard (p/n 5190-9417) retention times. Peaks with integrated areas below 0.5% of the calculated values were excluded from analysis.

**Figure 3.** HPLC analytical SEC after 3 freeze-thaw cycles.



**Figure 4.** Octet binding analysis, antibody was loaded on sensor for capture of PAI-1 protein in different concentrations.