

Recombinant Human PR3 Antigen

Product overview

Catalog number	C-40-0072
Description	Recombinant human Proteinase 3 (PR3) antigen with His tag. Predicted molecular weight: ~27 kDa.
Product host	HEK293 cells
Product formulation	Liquid
Product buffer solution	10 mM PBS, pH 7.4, 0.8 % NaCl, 0.02% KCl.
Shelf life and storage	3 years, storage at -70 °C or below. Repeated freeze/thaw cycles should be avoided.
Analyte description	<p>Proteinase 3 (PR3), also known as myeloperoxidase associated protease (Myeloblastin), is a key molecule in neutrophil mediated immune defense and inflammatory response. Its abnormal activation is closely related to autoimmune diseases such as ANCA associated vasculitis. PR3 is one of the main target antigens of anti neutrophil cytoplasmic antibodies (ANCA). After neutrophil activation, PR3 is exposed to the cell surface and binds to ANCA (anti-PR3 antibody), causing degranulation and oxygen explosion. The released PR3 and reactive oxygen species (ROS) can damage endothelial cells and lead to vasculitis. According to reports, PR3-ANCA can be detected in the serum of 90% of patients with granulomatous polyangiitis (GPA). In addition, PR3 levels in synovial fluid of patients with rheumatoid arthritis will also increase, exacerbating joint damage.</p>
Product concentration	N/A
Purity	≥95%, SDS-PAGE
Antibodies tested	NA
Miscellaneous	N/A

