Recombinant Human PADI4 / PAD4 Protein (Full Length, GST Tag), Active

纯度：
For specific information on a given lot, see related technical data sheet.

生物活性：
For specific information on a given lot, see related technical data sheet.

经验证的应用：
Enzyme Assay

蛋白构建：
Recombinant full length human PAD4 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

表达宿主：
Baculovirus-Insect Cells

种属：
Human

分子量：
96 kDa

缓冲液：
Supplied as sterile 50 mM Tris-HCl, pH 7.5, 50-300mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25-1.0mM DTT, 0-0.1mM PMSF, 10-25% glycerol
Please contact us for any concerns or special requirements.

运输方式：
Enzymes are highly recommended to be shipped at frozen temperature with dry ice.
Shipment made at ambient temperature may seriously affect the activity of the ordered products.

稳定性 & 储存条件：
Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

PADI4 / PAD4 背景信息：

Protein-arginine deiminase type-4, also known as HL-6 PAD, Peptidylarginine deiminase IV, Protein-arginine deiminase type I V and PADI4, is a cytoplasm and nucleus protein that belongs to the protein arginine deiminase family. PADI4 is expressed in CD34+ stem cells in normal tissues, and many more CD34+ cells expressing PADI4 are present in tumour tissues. PADI4 post-translationally converts peptidylarginine to citrulline, a process called citrullination. Studies have demonstrated the high expression of PADI4 in various malignant tumor tissues. PADI4 is also expressed at high levels in the blood of patients with some malignant tumors. Citrullination of histone, cytokeratin, antithrombin and fibronectin have been confirmed to be involved in abnormal apoptosis, high coagulation, and disordered cell proliferation and differentiation, all of which are main features of malignant tumors. PADI4 may play an important role in tumorigenesis. Genetic variations in PADI4 are a cause of susceptibility to rheumatoid arthritis (RA). It is a systemic inflammatory disease with autoimmune features and a complex genetic component. It primarily affects the joints and is characterized by inflammatory changes in the synovial membranes and articular structures, widespread fibrinoid degeneration of the collagen fibers in mesenchymal tissues, and by atrophy and rarefaction of bony structures.

全称：

peptidyl arginine deiminase, type IV