

Cynomolgus PADI2 Protein

Cat. No. PAD-CB102



Description

Source	Recombinant Cynomolgus PADI2 Protein is expressed from Baculovirus-Insect Cells(Sf9) with His tag at the N-terminus.
	It contains Met1-Pro665.
Accession	G7NUR0
Molecular Weight	The protein has a predicted MW of 77.08 kDa. The protein migrates to 70-85 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE
	> 85% as determined by HPLC

Formulation and Storage

Formulation	Supplied as 0.22 µm filtered solution in PBS, 10% glycerol (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Peptidylarginine deiminases (PADs) are a group of enzymes that catalyze post-translational modifications of proteins by converting arginine residues into citrullines. PAD2 can be found in many tissues and organs, including brain, spinal cord, spleen, pancreas, skeletal muscles, secretory glands, and immune cells. By citrullinating proteins, PAD2 regulates a number of cellular processes such as gene transcription, antigen generation, extracellular trap formation (also termed ETosis), and pyroptosis.

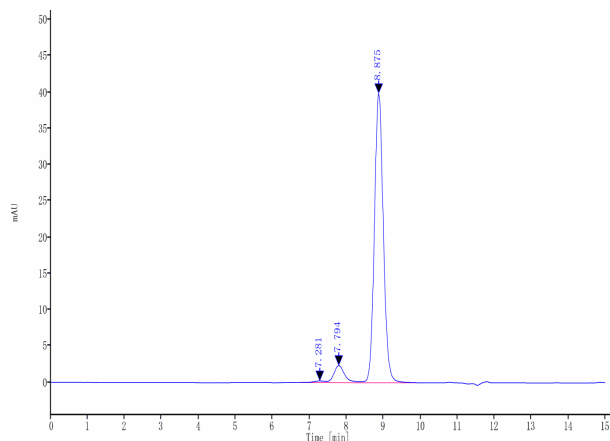
Assay Data

Bis-Tris PAGE



Cynomolgus PADI2 on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

SEC-HPLC



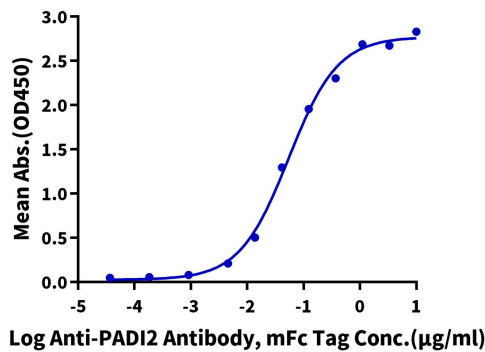
The purity of Cynomolgus PADI2 Protein is greater than 85% as determined by SEC-HPLC.

Assay Data

ELISA Data

Cynomolgus PADI2, His Tag ELISA

0.2μg Cynomolgus PADI2, His Tag Per Well



Immobilized Cynomolgus PADI2, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-PADI2 Antibody, mFc Tag with the EC50 of 54.3ng/ml determined by ELISA.