Cynomolgus PADI2 Protein, His Tag (MALS verified)

Catalog # PA2-C5545

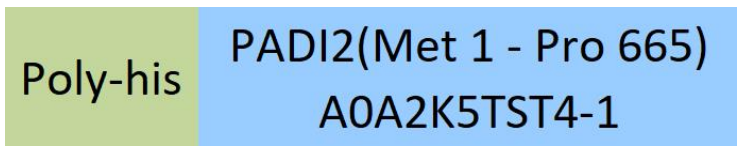
Synonym

PADI2,PAD-H19,KIAA0994,PAD2,PDI2

Source

Cynomolgus PADI2, His Tag(PA2-C5545) is expressed from Baculovirus-Insect cells. It contains AA Met 1 - Pro 665 (Accession # A0A2K5TST4-1).
Predicted N-terminus: Met

Molecular Characterization



This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 77.6 kDa. The protein migrates as 75-85 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 μm filtered solution in PBS, pH7.4 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

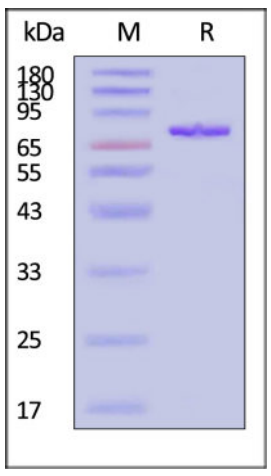
Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

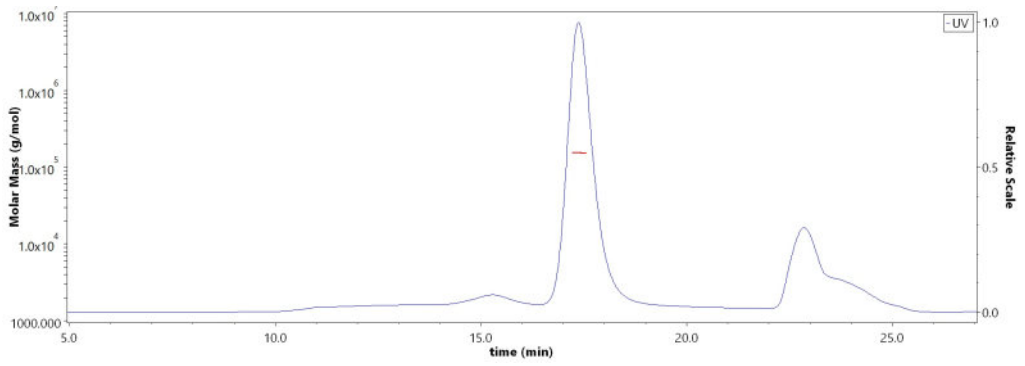
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE



Cynomolgus PADI2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Cynomolgus PADI2, His Tag (Cat. No. PA2-C5545) is more than 85% and the molecular weight of this protein is around 136-167 kDa verified by SEC-MALS.
Report

Background

Protein-arginine deiminase type-2 (PADI2) are calcium-dependent histone-modifying enzymes whose activity is dysregulated in inflammatory diseases and cancer. This enzyme which catalyze the post-translational deimination of proteins by converting arginine residues into citrullines in the presence of calcium ions. The type II enzyme is the most widely expressed family member. Known substrates for this enzyme include myelin basic protein in the central nervous system and vimentin in skeletal muscle and macrophages.

Clinical and Translational Updates