Data Sheet (Cat.No.TMPK-00501)

TargetMol

PADI4 Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms: Protein-arginine deiminase type-4;HL60 PAD;PAD;PDI5;PADI5;PAD4;HL-60;HL-60 PAD

Protein Construction: Met1-Pro663

Species: Cynomolgus

Expression Host: E. coli

Accession: A0A2K5USI5

Molecular Weight: 76.6 kDa (predicted) same as Tris-Bis PAGE result.

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 95% as determined by Tris-Bis PAGE

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Supplied as 0.22 μm filtered solution in 20 mM Tris, 500 mM Nacl, 10% Glycerol, 0.5 mM TCEP, 1 mM EDTA (pH 8.0).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Peptidylarginine deiminase type4 (PADI4) was firstly identified as a non-MHC RA genetic risk factor. Furthermore, PADI4 risk allele possessed the association with bone damage regardless of anti citrullinated peptide antibody (ACPA) positivity in Asian RA patients. PADI4 gene codes PAD4 protein which has post-translational modification activity (citrullination). Padi4 is mainly expressed in myeloid cells and granulocytes.

Reference

Seri Y, et al. [Peptidylarginine deiminase type4 (PADI4) role in immune system]. Nihon Rinsho Meneki Gakkai Kaishi. 2014;37(3):154-9. Japanese. doi: 10.2177/jsci.37.154. PMID: 24974927.

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