

PAD Cocktail Active Protein | PAD active protein

PAD Cocktail, Active

CATALOG #
AAA73186

HOST
Sf9 insect cells

PRODUCT SYNONYMS

PAD Cocktail; Active; PAD active protein

PRODUCT SPECIFICATIONS

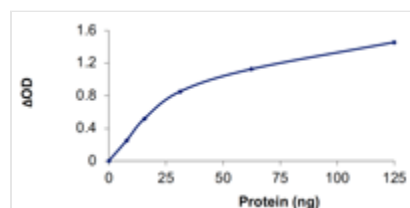
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Tag	GST
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES



SDS-PAGE

Purity: SDS-PAGE image of PAD Cocktail Proteins. The five PAD isoform proteins from left to right are: PAD1, PAD4, PAD3, PAD6 and PAD2. The far-right lane contains PAD Cocktail.



Activity

Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for PAD active protein	The five full length recombinant PAD proteins (1, 2, 3, 4 and 6) expressed by baculovirus in Sf9 insect cells using N-terminal GST tags. This mixture is ideally suited for in vitro citrullination of protein targets. The PAD family of enzymes is responsible for the catalysis of arginine-to-citrulline conversion in target proteins. There are 5 mammalian PAD isoforms (PAD1-4,6) that share ~50% sequence homology. Each PAD enzyme has its own typical subcellular localization, tissue distribution and substrate specificity, although no substrate protein has been found so far for PAD6.
Product Categories/Family for PAD active protein	Arginine Deiminase and Proteins ; Inflammation
References	1. Tilwawala, R et. Al: Peptidyl arginine deiminases: detection and finctional analysis of protein citrullination. Curr. Opin. Struct. Biol. 20, 1-11, 2019. 2. Clancy K.W. et al., Detection and identification of protein citrullination in complex biological systems. Curr. Opin. Chem. Biol., 30, 1-6, 2016.

NCBI AND UNIPROT INFORMATION

NCBI Accession #	BC049947
NCBI GenBank Nucleotide #	NM_013358
Molecular Weight	PAD1: ~95kDa PAD2: ~99kDa PAD3: ~97kDa PAD4: ~96kDa PAD6: ~100kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/sf9-active-protein/pad-cocktail/73186>