

PADI4

Recombinant Human Peptidyl Arginine Deiminase Type IV His-Tagged

Catalog No.	MON9108	Quantity:	10 units
Alternate Names:	PAD, PAD4, PADI5, PDI4, PDI5		
Gene ID:	23569		
Description:	Recombinant human PADI4 His-tagged is intended for studies on its deimination properties.		
Formulation:	Liquid in 20 mM Tris-HCl, pH 7.6 + 10 mM 2- β -mercaptoethanol + 400 mM NaCl + 250 mM Imidazol + 1 mM EDTA + 10% glycerol		
Purification:	Ni-beads		
Specific Activity:	Activity has been tested in an MQR Antibody Based Assay for PAD activity (ABAP) and compared to rabbit skeletal muscle PAD. 0.11 μ l of recombinant human PADI4 contains approximately 12.5 mU. One unit will produce 1 μ mole of N-alpha-benzoylcitrulline ethyl ester from BAEE per hour at 55°C at pH 7.2.		
Applications:	ELISA		
Application Notes:	Before use the enzyme should be diluted at a suitable concentration in deimination buffer (40 mM Tris-HCl, pH 7.5 + 5 mM CaCl ₂ + 1 mM DTT). Recommended PAD concentration: 12.5 mU PADI4 in 100 μ l deimination buffer if used in an ELISA based assay using 96-well plates. The optimal concentration should be determined by the user for each specific application.		
Storage & Stability:	Store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.		

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