

Active Recombinant Full Length Human PADI2 Protein, GST tagged

Cat. No. PADI2-12HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PAD2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Insect Cells
Description	This gene encodes a member of the peptidyl arginine deiminase family of enzymes, which catalyze the post-translational deimination of proteins by converting arginine residues into citrullines in the presence of calcium ions. The family members have distinct substrate specificities and tissue-specific expression patterns. 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. This enzyme is thought to play a role in the onset and progression of neurodegenerative human disorders, including Alzheimer disease and multiple sclerosis, and it has also been implicated in glaucoma pathogenesis. This gene exists in a cluster with four other paralogous genes.
Molecular Mass	102 kDa
Bio-activity	1.0 nmol/min/mg
Purity	> 90%

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Stability	One year at –70 centigrade from date of shipment.
Storage	Store product at –70 centigrade for up to one year. 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.
Storage Buffer	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Concentration	0.1 µg/µL
Shipping	Dry ice

GENE INFORMATION

Gene Name	PADI2 peptidyl arginine deiminase, type II [Homo sapiens (human)]
Official Symbol	PADI2
Synonyms	PADI2; peptidyl arginine deiminase, type II; protein-arginine deiminase type-2; KIAA0994; PDI2; protein arginine deiminase; peptidylarginine deiminase II; peptidylarginine deiminase type II; protein-arginine deiminase type II; PAD2; PAD-H19
Gene ID	11240
mRNA Refseq	NM_007365
Protein Refseq	NP_031391

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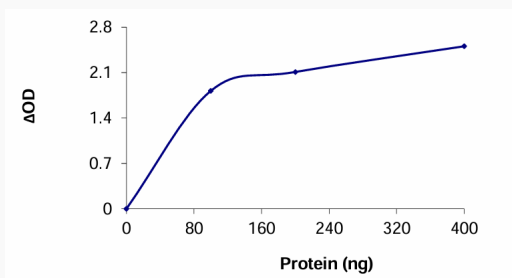
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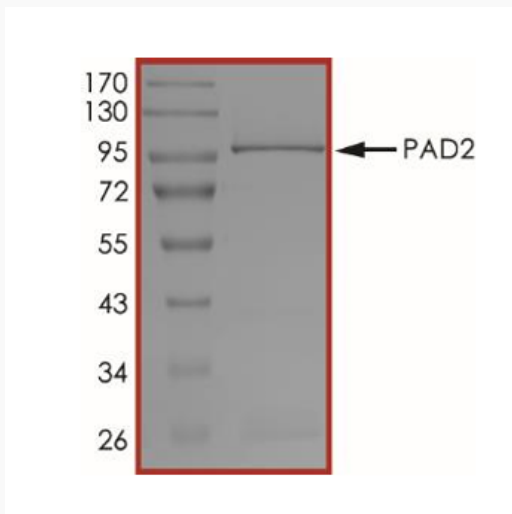
UniProt ID Q9Y2J8

Specific Activity



The specific activity of PAD2 was determined to be 1.0 nmol/min/mg as per activity assay protocol.

Purity



The purity of PAD2 was determined to be > 90% by densitometry. Approx. MW 102 kDa.

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