Active Recombinant Human PADI2, Flag-tagged

Cat. No. PADI2-187H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PADI2(1-665(end)), fused with C-terminal FLAG-tag, was expressed in a Baculovirus infected Sf9 cell expression system.
Species	Human
Source	Sf9 Cells
ProteinLength	1-665 a.a.
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.
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 80 ng/μFLAG peptide, 3 mMDTT, and 20% glycerol.
Bio-activity	≥19 pmole/min/μg.

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Molecular Mass	77 kDa
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Storage	>6 months at –80°C.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	PADI2 peptidyl arginine deiminase, type II [Homo sapiens (human)]
Official Symbol	PADI2
Synonyms	PADI2; PAD2; PDI2; PAD-H19; protein-arginine deiminase type-2; protein-arginine deiminase type II; NP_031391.2; EC 3.5.3.15; peptidyl arginine deiminase, type II
Gene ID	11240
mRNA Refseq	NM_007365
Protein Refseq	NP_031391
MIM	607935
UniProt ID	Q9Y2J8
Chromosome Location	1p36.13
Pathway	protein citrullination

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Function	calcium ion binding; estrogen receptor binding; protein-arginine deiminase activity

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