

PRODUCT DATASHEET

PAD2

(Peptidyl arginine deiminase, type II)

CATALOG NO.: PAD-21-474

LOT NO.:

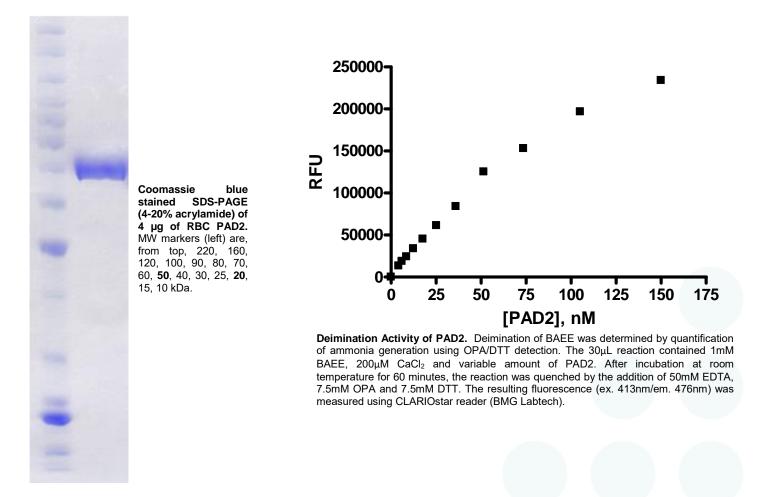
DESCRIPTION: Human recombinant PAD2 (residues 2-664; Uniprot #Q9Y2J8; MW = 77.9 kDa) expressed in *sf21* insect cells with an N-terminal Strep-tag. PAD2 (PADI2) catalyzes the hydrolytic deimination of specific arginine residues to citrulline and ammonia in a calcium-dependent manner.

PURITY: >95% by SDS-PAGE

ASSAY CONDITIONS: RBC's PAD2 displays deiminase activity in an endpoint OPA/DTT coupled reaction with BAEE substrate. Reactions containing variable PAD2 with 1mM N- α -benzoyl-L-arginine ethyl ester (BAEE) and 200 μ M CaCl₂ in 100mM HEPES, pH 8, 50mM NaCl, 2mM DTT, 1% DMSO were incubated at room temperature for 60 minutes. Fluorescence signal was read (Ex 413nm/Em 476nm) after 60 minute incubation with quench/detection buffer containing 7.5mM o-phthaldialdehye, 50mM EDTA and 7.5mM DTT (see figure below).

SUPPLIED AS: ____ µg/µL in 20 mM Tris, pH 8, 500 mM NaCl, 10% (v/v) glycerol, 1mM EDTA, 2mM DTT as determined by OD₂₈₀.

STORAGE: -70°C. Thaw quickly and store on ice before use. The remaining, unused, undiluted enzyme should be snap frozen, for example in a dry/ice ethanol bath or liquid nitrogen. Minimize freeze/thaws if possible, but very low volume aliquots (<5 µl) or storage of diluted enzyme is not recommended.



This product is not intended for therapeutic or diagnostic use in animals or in humans.

Reaction Biology

1 Great Valley Parkway, Malvern PA, USA 19355 requests@reactionbiology.com www.reactionbiology.com