PADI2, FLAG-Tag

Catalog: 50152

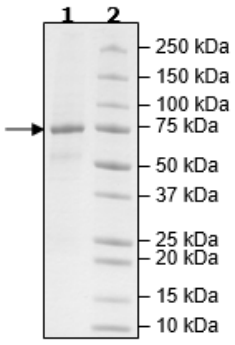
Lot: 180703

Product Information

Construct:	PADI2 (1-665(end)-FLAG)
Concentration:	0.46 mg/ml
Species:	Human
Formulated In:	40 mM Tris-HCL, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 3 mM DTT, 80 ng/µl FLAG peptide and 20% Glycerol.
Expression System:	Sf9
Format:	Aqueous buffer solution
Stability:	At least 6 months at -80°C. Avoid freeze/thaw cycles.
Storage:	-80°C
Genbank Accession:	NM_007365
MW:	77 kDa
Purity:	84%
Specific Activity:	≥19 pmol/min/µg
Assay Conditions:	Enzyme reaction was done in a buffer (50 mM HEPES, pH 7.4, 50 mM NaCl, 10 mM $CaCl_2$, and 2 mM DTT) containing PADI and 10 mM BAEE as a substrate for 30 min at 37°C. Amount of ammonia produced was measured and used for specific activity calculation. After 30 min incubation at 37°C, the reaction was quenched using 15 µL of 500 mM EDTA (final concentration is 115 mM) followed by measuring the amount of NH3 produced by o-phthalaldehyde (OPT) and dithiothreitol (DTT). Fluorescence was measured at λ_{ex}413 nm and λ_{em}476 nm.
Applications:	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Control Data

4-20% SDS-Page Coomassie Staining



PADI2 Activity