

## Product specifications

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Name	Anti-h Trypsinogen-2 8603 SPRN-5
Specificity	Antibody recognizes human trypsinogen-2
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product code	100107
Product buffer solution	37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
Shelf life and storage	24 months from manufacturing at 2–8 °C
Subclass	IgG <sub>2b</sub>
Analyte description	Trypsinogen is the precursor form of the pancreatic enzyme trypsin. It is found in pancreatic juice, along with amylase, lipase, and chymotrypsinogen. It is activated by enteropeptidase, which is found in the intestinal mucosa, to form trypsin. Once activated, the trypsin can activate more trypsinogen into trypsin. Trypsin cleaves peptide bond on carboxyl side of basic amino acids. High serum trypsinogen levels are seen in acute pancreatitis, and cystic fibrosis. Determination of urine trypsinogen-2 is also a useful test to detect acute pancreatitis and to evaluate disease severity.

## Parameters tested on each lot

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Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.6–7.6
Purity	≥ 95 %

## Kinetic parameters

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Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	1.4 x 10 <sup>8</sup> 1/M
Determination method	Radioimmunoassay (RIA)
Determination antigen	Trypsinogen-2, Medix Biochemica, in-house

**Cross-reactivities** Human Trypsin-1 7 % (Scripps, Cat T0614, Lot 923782)  
Human Trypsin-2 3 % (Medix Biochemica, in house, A98/97)

**Epitope** N/D

**Pair recommendations**

		DETECTION	
		8603	8607
CAPTURE	8603	-	+
	8607	+	-

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

**Platforms tested** FIA

**Antigens tested** N/D

Product stability	TEMPERATURE, TIME	RESULT
	-70 °C, 21 days	N/D
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+30 °C, 21 days	OK
	+35 °C, 7 days	OK
	+35 °C, 21 days	Reduced immunoreactivity
	+45 °C, 7 days	OK

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

**Miscellaneous** -

**References** -

