

Detection of gliadin antibodies has been used for a long time in celiac disease diagnostics, but suffered from a low specificity. This disadvantage was overcome by the introduction of deamidated gliadin peptides as antigen. The ratio behind is that tissue

transglutaminase catalyzes gliadin deamidation in the intestinal mucosa of celiac disease patients, resulting in deamidated gliadin peptides which are recognized by HLA receptors of immune cells. Therefore deamidated gliadin antibodies are specific for celiac disease.

DGPx1 is our novel deamidated gliadin peptide, fused to a carrier protein and produced by recombinant techniques intended for usage as antigen in deamidated gliadin antibody detection.

Deamidated gliadin peptide DGPx1

- recombinantly produced and highly purified
- efficient coating under standard conditions
- high diagnostic specificity
- license free

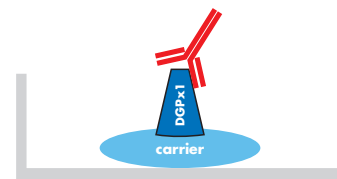


Figure 2: DGPx1-fusion protein allows efficient coating and accessibility to the antigen.

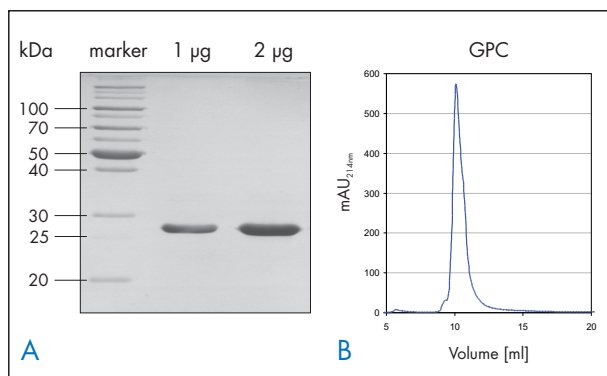


Figure 1: Silver stained SDS-PAGE (A) and GPC-HPLC analysis (B) of highly purified DGPx1.

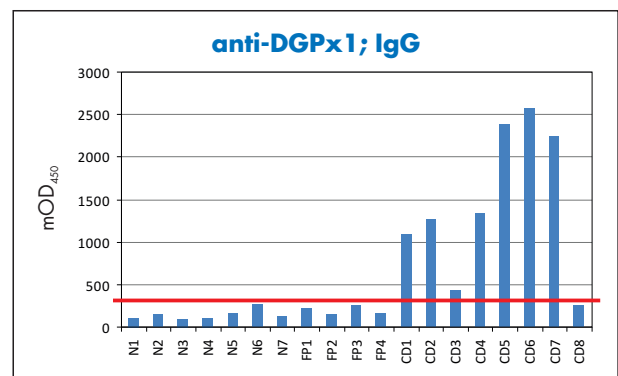


Figure 3: Detection of deamidated gliadin-antibodies (IgG-type) in sera from healthy donors (N), non-celiac disease patients with positive anti-gliadin antibody titer (false positives, FP), and celiac disease patients (CD). Red line: cut off. Note: CD8 is positive for deamidated gliadin antibodies of the IgA-type.

Order **test samples** now via
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Art. No.	Name	Quantity	Price
G007	DGPx1 (deamidated gliadin peptide fused to carrier protein)	500 µg	700 €



Zedira GmbH
Roesslerstrasse 83
64293 Darmstadt
Germany

Phone: +49 61 51 / 32 51 00
Fax: +49 61 51 / 32 51 19
E-mail: contact@zedira.com
Web: www.zedira.com

Test sample price: 200 €*

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