








Product number **G056**
Revision number **RN2.1**

Product Name DGP and Gliadin peptides (Set No 1)

Background info Gliadin peptides derived from *Triticum aestivum* (wheat) are the main immunotoxic antigens present in celiac disease. They are substrates for tissue transglutaminase, which specifically deamidates glutamine residues within these peptides, and therefore strongly increases their immunogenicity (Dørum S. et al., J. Proteome Res. 2009; 8:1748-55).

We offer a set of fusion proteins that carry the different native and deamidated peptide sequences that facilitate the analysis of antibodies found in celiac disease related samples.

Art. No.	Name	
→ G051	26mer gliadin peptide	
→ G052	33mer gliadin peptide	
→ G055	Carrier protein control	
→ G007 / G060	DGPx1 (26mer DGP)	
→ G054	33mer DGP	
G006	DGPx2	
G005	DGPx4	

Description The set comprises the following products:
 G051 26mer gliadin peptide (native 26mer gamma gliadin peptide)
 G052 33mer gliadin peptide (native 33mer alpha gliadin peptide)
 G007 DGPx1 (deamidated 26mer gamma gliadin peptide)
 G054 33mer DGP (deamidated 33mer alpha gliadin peptide)
 G055 Carrier protein control

Source Recombinantly produced in *E. coli*

Quantity 100 µg each

Purity > 95% (SDS-PAGE and Coomassie staining)

Appearance White lyophilized solid.

Reagents The recombinant proteins are lyophilized from a solution of ~50 mM NaH₂PO₄, pH 6.8.

Reconstitution Add the volume of H₂O the proteins are lyophilized from (see Certificate of Analysis) to each vial of lyophilized powder. Rotate vials gently until solid dissolves. Further dilutions can be made in your buffer of choice. After reconstitution, the solutions should be stored frozen in working aliquots.

Application The recombinant antigens are meant for solid (ELISA and immunoblot) and fluid phase assays as well as Western Blotting.

Coating Dilute with your coating buffer to an appropriate concentration, e.g. 1 µg/ml. Please notice that coating conditions have to be evaluated carefully.

Product number **G056**
Revision number **RN2.1**

Storage

Store at -80°C. Stability is given for at least 4 years when stored at -80°C (see retest date on Certificate of Analysis), with potential to date extend after retesting.

If storage at -80°C is not possible, storage at $\leq -20^{\circ}\text{C}$ is recommended. Solutions are stable for at least 2 years when stored at $\leq -20^{\circ}\text{C}$.

Upon reconstitution, store undiluted working aliquots preferably at -80°C (if not possible at $\leq -20^{\circ}\text{C}$, see comment above).

Avoid repeated freezing and thawing.

Delivery is possible at ambient temperature

Related products

G051 26mer gliadin peptide (native 26mer gamma gliadin peptide)
G052 33mer gliadin peptide (native 33mer alpha gliadin peptide)
G007 DGPx1 (deamidated 26mer gamma gliadin peptide)
G054 33mer DGP (deamidated 33mer alpha gliadin peptide)
G055 Carrier protein control

Release date

31 January 2022

NOTE

INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.