

Product datasheet

Recombinant Wheat Gliadin protein ab124981

Overview

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| Product name | Recombinant Wheat Gliadin protein |
| Protein length | Protein fragment |

Description

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|----------------------------|-----------------------|
| Nature | Recombinant |
| Source | Escherichia coli |
| Amino Acid Sequence | |
| Species | Wheat |
| Molecular weight | 19 kDa including tags |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab124981** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| Applications | Western blot ELISA SDS-PAGE |
| Purity | > 90 % SDS-PAGE. Purity is greater than 94.0% as determined by SDS-PAGE. |
| Form | Liquid |

Preparation and Storage

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| Stability and Storage | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.48% HEPES, 20% Glycerol, 1.17% Sodium chloride |
|------------------------------|---|

General Info

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| Relevance | Celiac disease is associated with a CD4+ T-cell response to epitopes of gliadin presented by |
|------------------|--|

HLA-DQ2 or -DQ8 class II MHC molecules. These epitopes are present in a 33-mer peptide of wheat alpha-gliadin, residues 56-88, which is resistant to digestion and forms a substrate for tissue transglutaminase (TG2), generating the glutamic acid residues essential for binding to HLA-DQ2. The alcohol soluble proteins (prolamins) from wheat, rye, barley and oats produce the harmful effect of coeliac disease or gluten sensitive enteropathy in humans by causing characteristic changes in the intestinal mucosa. Patients so affected must avoid eating these grains and replace them with rice, corn, potatoes, etc. Many gluten-free foods are produced industrially, thus several immunoassays have been developed for determination of gliadin in supposedly gluten-free foods.

Cellular localization

Cytoplasmic; major seed storage protein in wheat.

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