

## Product Data Sheet

Product Name: Gliadin Gamma Wheat  
 Cat. No.: GP23561  
 Batch No.: 1

### Product Data

Purity >98% Source  
 Physical Appearance solid Shipping Condition

Amino Acid Sequence MKTLLILTLAMAITIGTANIQVDPGQVQWLQQQLVPLQQLPSQQPQQTFFPQPQQTFFPHQPQQVQPQQPQQPFLQPQQPFPPQQPQQPFPQTQQP

Formulation Gliadin Gamma protein solution (1mg/ml) in 10mM Tris-HCl pH 7.2.

### Introduction

Wheat Gliadin and related gluten components from barley, rye and possibly oats can cause an abnormal immune response called Celiac disease which is a chronic gastrointestinal disorder. Celiac disease characteristics are flattening of the jejunal mucosa and intestinal lesions of variable severity in hereditarily inclined individuals. Even though Celiac disease is not a classic autoimmune disease it is related to anti-tissue transglutaminase antibodies and gliadin antibodies tests are most recommended in screening populations at risk for CD and other gluten-sensitive enteropathies. In the past, serologic tests for gliadin antibodies usually were not very precise and were not enough for accurate diagnosis due to missing deamidated epitopes within the authentic gliadin fraction traditionally used in diagnostic test kits. Glpbio's deamidated Gliadin isoform matches to the deamidated neo-epitopes, which in the natural antigen are formed by transglutaminase-mediated glutamine side chain deamidation.

### Stability

Gliadin Gamma although stable at 4°C for 1 week, should be stored below -18°C .Please prevent freeze thaw cycles.

### Background

Recombinant Wheat Gliadin Gamma protein produced in E.Coli and fused to a 6 His Tag at C-terminus, having a theoretical Mw of 37945.14 Dalton, pI 7.70.Purified by proprietary chromatographic technique.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA