

## Gliadin p31-43 TFA

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Gliadin p31-43 TFA, an undigested gliadin peptide, triggers an innate immune response in the intestine and disrupts endocytic trafficking, serving as a useful agent for celiac disease research [1] [2].
In vitro	Treatment with gliadin p31-43 (100 µg/mL; 30 minutes-6 hours) induces the formation of MyD88/TLR7 complexes and triggers activation of the downstream signaling pathways, specifically the MAPKs, including ERK, JNK, and p38.
In vivo	Gliadin p31-43 demonstrates a sequence-specific capacity for oligomerization and aggregation in vitro and stimulates the apoptosis-associated speck-like (ASC) complex [2] when administered intraluminally at a dose of 10 µg. Moreover, oral administration of 20 µg Gliadin p31-43 to wild-type C57Bl/6 mice elevates IL-1β levels, indicative of inflammasome caspase-1 pathway activation in the small intestine's mucosa. This compound inherently tends to form oligomers, which in turn activate the NLRP3 inflammasome [2].

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481