



Tenuazonic acid [KLH] (DAG059S)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Species	N/A
Conjugate	KLH
Applications	ELISA, LF
Format	Liquid
Concentration	Please refer to the vial label for the specific concentration.
Size	1 mg
Buffer	Supplied in PBS
Preservative	None
Storage	Short Term: 2-8°C. Long Term: -20°C. Avoid multiple freeze-thaw cycles.

BACKGROUND

Introduction	Tenuazonic acid is one of the major Alternaria mycotoxins commonly found as a natural contaminant in food (LD50 = 548 µg/egg in the chicken embryo toxicity assay). Tenuazonic acid contamination has been linked to esophageal cancer in human populations at risk of high exposure. Mice fed 100 mg/kg/day tenuazonic acid orally for 10 months developed precancerous lesions on the esophageal mucosa. Microscopic analysis of mucosal epithelial cells from these tenuazonic acid-treated animals reveal pyknosis and marked pleomorphisms in the nuclei, chromatin granulation and increased chromatin mass, irregularities in nuclear contours, and vacuolization in nucleoplasm.
Keywords	Tenuazonic acid