

Crotonaldehyde BSA Conjugate

Catalog number: 16070

Unit size: 100 ug

Product Details

Storage Conditions Freeze (<-15 °C), Minimize light exposure

Expiration Date 12 months upon receiving

Chemical Properties

Appearance Solid

Soluble In Water

Applications

Crotonaldehyde is a common environmental pollutant. Inhalation of tobacco smoke is a significant source of crotonaldehyde, exposing smokers to 30–170 µg/kg/day. Crotonaldehyde also occurs naturally in certain fruits and vegetables, selected dairy products, and some alcoholic beverages. In addition to these exogenous sources, crotonaldehyde is also formed endogenously during lipid peroxidation (LPO), a factor that may contribute to the aldehydes' presence in the serum of nonsmokers. As with other unsaturated aldehydes, crotonaldehyde exhibits many toxicological properties, including an ability to cause multi-organ toxicity in laboratory animals; DNA damage and mutagenicity in vitro; and carcinogenicity in vivo. Crotonaldehyde BSA conjugate was carefully prepared from the addition of crotonaldehyde to bovine serum albumin (BSA). Our crotonaldehyde BSA conjugate is fully characterized with the defined ratio of crotonaldehyde/protein that is not provided by other vendors. It has been used for preparing anti-crotonaldehyde antibodies and for developing crotonaldehyde-quantifying assays.