Creative Enzymes®

Aflatoxin B1 aldehyde reductase member 2 from Human, Recombinant

Cat. No. NATE-1196

Lot. No. (See product label)

Introduction

Description	Aflatoxin B1 aldehyde reductase member 2 catalyzes the NADPH-dependent reduction of succinic semialdehyde to gamma-hydroxybutyrate. May have an important role in producing the neuromodulator gamma-hydroxybutyrate (GHB). Has broad substrate specificity. Has NADPH-dependent aldehyde reductase activity towards 2-carboxybenzaldehyde, 2-nitrobenzaldehyde and pyridine-2-aldehyde (in vitro). Can reduce 1,2-naphthoquinone and 9,10-phenanthrenequinone (in vitro). Can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. May be involved in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen.
Synonyms	AFB1 aldehyde reductase 1; AFB1-AR 1; Aldoketoreductase 7; Succinic semialdehyde reductase

Product Information

Source	Human
EC Number	EC 1.1.1.n11
Molecular Weight	39588.9 Da