

Azoxymethane

Catalog No: tcsc0040219



Available Sizes

Size: 5mg



Specifications

CAS No:

25843-45-2

Formula:

$C_2H_6N_2O$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

AOM

Observed Molecular Weight:

74.08

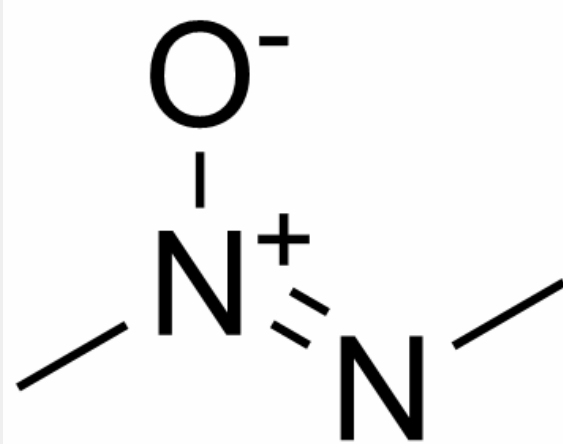
Product Description

Azoxymethane is a colon carcinogen which leads to the formation of DNA adducts.

In Vitro: Azoxymethane is a colon carcinogen which leads to the formation of DNA adducts. On an equal protein basis, hepatic microsomes are much more active than SI and colon microsomes in NADPH-dependent Azoxymethane bioactivation and N⁷-mG adduct formation. Hepatic microsomes show the highest activity in the hydroxylation of Azoxymethane, followed by SI and colon

microsomes^[1].

In Vivo: Regardless of the strain, the amounts of O⁶-mG and N⁷-mG produced by Azoxymethane are highest in the liver, followed by proximal and distal colons, which have similar levels, and then by duodenum, jejunum and ileum. Results indicate that the Azoxymethane-induced DNA adduct formation in the SI and colon does not depend on bioactivation by hepatic P450 enzymes. Irrespective of the mouse strain, no aberrant crypt foci (ACF) is detected in the colons of saline-treated mice; in contrast, colonic ACF is detected in all three strains of Azoxymethane-treated mice^[1]. The Azoxymethane-treated athymic mice have approximately an 11-fold lower tumor incidence than similarly treated WT animals^[2].



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