

Product Data Sheet

Product Name: 4-Diethylaminobenzaldehyde

Cat. No.: GC39245

Chemical Properties

Cas. No. 120-21-8

SMILES O=CC1=CC=C(N(CC)CC)C=C1

Formula $C_{11}H_{15}NO$

M.Wt 177.24

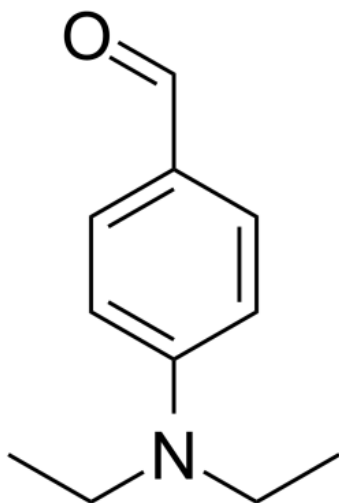
Solubility Soluble in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

4-Diethylaminobenzaldehyde is a reversible aldehyde dehydrogenases (ALDHs) inhibitor, with a K_i of 4 nM for ALDH1. 4-Diethylaminobenzaldehyde displays potent anti-androgenic effect (IC_{50} = 1.71 μ M) [1][2].

[1]. Luo M, et al. Diethylaminobenzaldehyde is a covalent, irreversible inactivator of ALDH7A1. ACS Chem Biol. 2015 Mar 20;10(3):693-7. [2]. Araki N, et al. Screening for androgen receptor activities in 253 industrial chemicals by in vitro reporter gene assays using AR-EcoScreen cells. Toxicol In Vitro.

Caution: Product has not been fully validated for medical applications. For research use only.

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2005 Sep;19(6):831-42.

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