

Product Data Sheet

Product Name: o-Dianisidine dihydrochloride (3,3'-Dimethoxybenzidine dihydrochloride)

Cat. No.: GC30377

Chemical Properties

Cas. No. 20325-40-0

SMILES NC1=CC=C(C2=CC=C(N)C(OC)=C2)C=C1OC.Cl.Cl

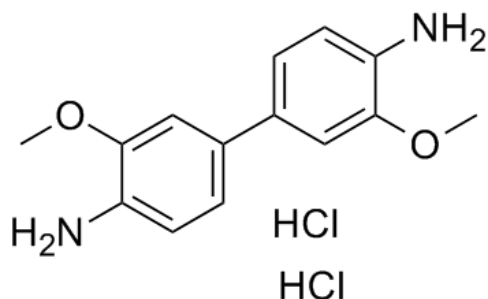
Formula $C_{14}H_{18}Cl_2N_2O_2$ M.Wt 317.21

Solubility DMSO : 6 mg/mL (18.91 mM; Need ultrasonic) 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

o-Dianisidine dihydrochloride is a colorimetric peroxidase substrate suitable for use in ELISA procedures. The compound has been used as a substrate to measure the oxidase activity of copper. o-Dianisidine dihydrochloride has also been used for a paper based-microfluidic device to semi-quantitatively measure lactate, uric acid, and glucose.

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

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[1]. Iskra M et al. Copper and zinc concentrations and the activities of ceruloplasmin and superoxide dismutase in atherosclerosis obliterans. Biol Trace Elem Res. 2000 Jan;73(1):55-65. [2]. Dungchai W et al. Use of multiple colorimetric indicators for paper-based microfluidic devices. Anal Chim Acta. 2010 Aug 3;674(2):227-33.

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