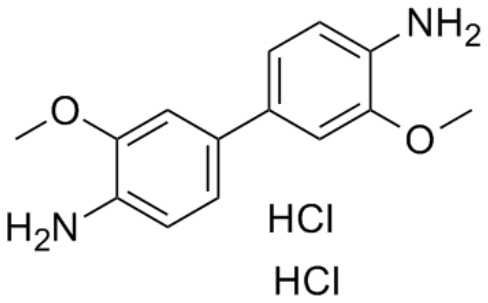
Product Data Sheet

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.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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[1]. Iskra M et al. Copper and zinc concentrations and the activities of ceruloplasmin and superoxide dismutase inatherosclerosis 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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