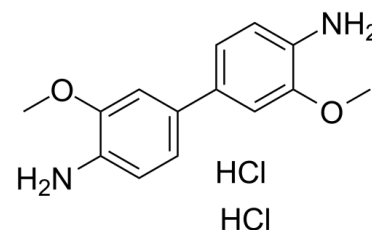


Data Sheet

Product Name:	o-Dianisidine (dihydrochloride)
Cat. No.:	CS-5864
CAS No.:	20325-40-0
Molecular Formula:	C ₁₄ H ₁₈ Cl ₂ N ₂ O ₂
Molecular Weight:	317.21
Target:	Others
Pathway:	Others
Solubility:	DMSO : 6 mg/mL (18.91 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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.

References:

- [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.

CAIndexNames:

[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-, hydrochloride (1:2)

SMILES:

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

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

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