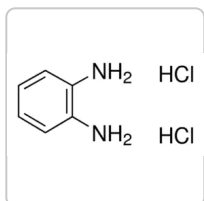


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FDS



COO/COA

Fiche des
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P3804 ▶ **Sigma-Aldrich.**

o-Phenylenediamine dihydrochloride

★★★★★ (0)

tablet, 5 mg substrate per tablet

Synonyme(s):

1,2-Phenylenediamine tablet, OPD, OPD Tablet

Formule linéaire:

 $C_6H_4(NH_2)_2 \cdot 2HCl$

 Numéro CAS: **615-28-1**

Poids moléculaire: 181.06

Beilstein: 3912045

 Numéro EC: **210-418-7**

 Numéro MDL: **MFCD00012966**

 ID de substance PubChem: **24898457**

NACRES: NA.83

Référence	Conditionnement	Disponibilité	Prix	Quantité
P3804-50TAB	50 TABLETS	Only 1 left in stock (more on the way)	Détails... 234,00 €	- + i
P3804-100TAB	100 TABLETS	Only 3 left in stock (more on the way)	Détails... 396,00 €	- + i

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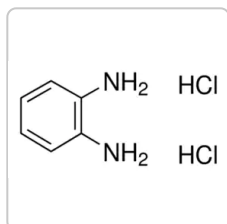
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PRODUITS RECOMMANDÉS



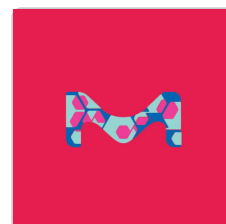
Sigma-Aldrich

P8287

o-Phenylenediamine dihydrochloride

tablet, 10 mg substrate per tablet

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

P9187

SIGMAFAST™ OPD

tablet

[Consulter le prix et la disponibilité](#)



PROPRIÉTÉS

Niveau de qualité	200
Forme	tablet
Pf	258 °C (dec.) (lit.)
Solubilité	water: 1 tablet/10 mL, clear, colorless
Temp. de stockage	2-8°C
SMILES string	<chem>Cl[H].Cl[H].Nc1ccccc1N</chem>

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Catégories apparentées

[Detection Substrates & Enzymes](#)

DESCRIPTION

Description générale

o-Phenylenediamine dihydrochloride (OPD) is a chromogenic substrate that can be used in enzyme-linked immunosorbent assay (ELISA) procedures as it utilizes horseradish peroxidase conjugates. The substrate produces a soluble end product that is orange-brown and can be read spectrophotometrically at 450 nm. The OPD reaction may be stopped with 3N HCl or 3M H₂SO₄ and read at 492 nm.

Conditionnement

16 mg total tablet weight

Reconstitution

Dissolve one tablet in 0.05 M phosphate-citrate buffer, pH 5.0, to the desired concentration (typically an OPD concentration of 0.4 mg/ml is used). Add 40 µl of fresh 30% hydrogen peroxide per 100 ml of substrate buffer solution, immediately prior to use. Tablets are individually packaged in foil packets.

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Pictograms



GHS07, GHS08, GHS09

Mention d'avertissement

Warning

Mentions de danger

H302 + H332 - H317 - H319 -
H341 - H351 - H410

Conseils de prudence

P273 - P280 - P301 + P312 -
P302 + P352 - P304 + P340 +
P312 - P308 + P313

Classification des risques

Acute Tox. 4 Inhalation -
Acute Tox. 4 Oral - Aquatic
Acute 1 - Aquatic Chronic 1 -
Carc. 2 - Eye Irrit. 2 - Muta. 2 -
Skin Sens. 1

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 3

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

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e.g. 02555451

Comment saisir un numéro de lot (COO)

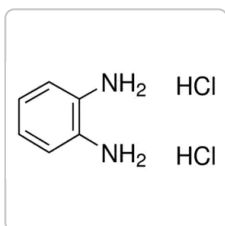
Rechercher

Plus De Documents

Structure Search

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

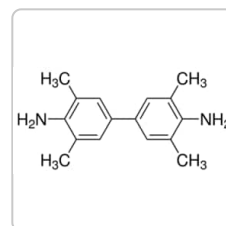


Sigma-Aldrich

P1526

o-Phenylenediamine dihydrochloride
peroxidase substrate

Consulter le prix et la disponibilité



Sigma-Aldrich

T5525

3,3',5,5'-Tetramethylbenzidine
tablet, 1 mg substrate per tablet

Consulter le prix et la disponibilité

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Phage display of peptides in ligand selection for use in affinity chromatography.

Joanne L Casey et al.

Methods in molecular biology (Clifton, N.J.), 421, 111-124 (2008-10-02)

Large repertoires of peptides displayed on bacteriophage have been extensively used to select for ligand-binding molecules. This is a relatively straightforward process involving several cycles of selection against target molecules, and the resulting ligands can be tailored to various applications.

Inflammasome activation leads to cDC1-independent cross-priming of CD8 T cells by epithelial cell-derived antigen.

Katherine A Deets et al.

eLife, 10 (2021-12-24)

The innate immune system detects pathogens and initiates adaptive immune responses. Inflammasomes are central components of the innate immune system, but whether inflammasomes provide sufficient signals to activate adaptive immunity is unclear. In intestinal epithelial cells (IECs), inflammasomes activate a

Characterization and sequence elucidation of a novel peptide with molt-inhibiting activity from the South African spiny lobster, *Jasus lalandii*.

H G Marco et al.

Peptides, 21(9), 1313-1321 (2000-11-10)

We have isolated a peptide from extracts of sinus glands from a South African spiny lobster species, *Jasus lalandii*, by high-performance liquid chromatography (HPLC) and identified it as a putative molt-inhibiting hormone (MIH) by (i) an in vitro assay with

Novel recombinant Mce-truncated protein based ELISA for the diagnosis of *Mycobacterium avium* subsp. *paratuberculosis* infection in domestic livestock.

Zahra Hemati et al.

PloS one, 15(6), e0233695-e0233695 (2020-06-02)

Johne's disease (JD) is an infectious wasting condition of ruminants caused by *Mycobacterium avium* subsp. *paratuberculosis* (MAP) in domestic livestock of every country that has been investigated. Controlling JD is problematic due to the lack of sensitive, specific, efficient, and

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Plasmacytoid dendritic cells (pDCs) have long been implicated in the pathogenesis of lupus. However, this conclusion has been largely based on a correlative link between the copious production of IFN- α/β by pDCs and the IFN- α/β "signature" often seen in human

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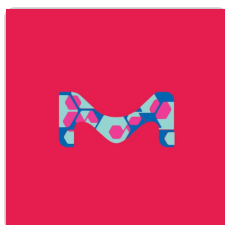
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Colorimetric Alkaline Phosphatase and Peroxidase Substrate Detection Systems

Nitroblue Tetrazolium (NBT) is used with the alkaline phosphatase substrate 5-Bromo- 4-Chloro-3-Indolyl Phosphate (BCIP) in western blotting and immunohistological staining procedures. These substrate systems produce an insoluble NBT diformazan end product that is blue to purple in color...

PRODUITS CONSULTÉS RÉCEMMENT

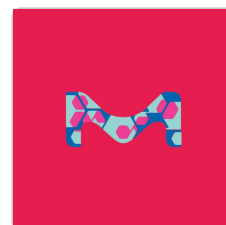


Sigma-Aldrich

P3803

Phenol:Chloroform:Isoamyl Alcohol 25:24:1,
Saturated with 10mM Tris, pH 8.0, 1mM EDTA
for molecular biology

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

P3796

Parathyroid Hormone Fragment 1-34 human
≥95% (HPLC), powder

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