[Toutes les photos \(1\)](#)

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents >>](#)**D2438** ▶ **Sigma-Aldrich.**

Dimethyl sulfoxide

★★★★★ 4.0 (1)

sterile-filtered, BioPerformance Certified, meets EP, USP testing specifications, suitable for hybridoma

Synonyme(s):

DMSO

Formule linéaire:

(CH₃)₂SONuméro CAS: **67-68-5**

Beilstein: 506008

Numéro MDL: **MFCD00002089**

NACRES: NA.75

Poids moléculaire: 78.13

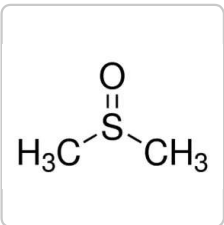
Numéro EC: **200-664-3**ID de substance PubChem: **24893688**

Référence	Conditionnement	Disponibilité	Prix	Quantité
D2438-50ML	50 ML	✓ Date d'expédition estimée le 28 novembre 2022	173,00 €	- +
D2438-5X10ML	5 X 10 ML	✓ Disponible pour expédition le 07 octobre 2022 Détails...	178,00 €	- +

[Demander une commande en gros](#)[Ajouter au panier](#)

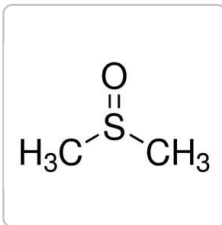
PRODUITS RECOMMANDÉS

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Sigma-Aldrich
D2650
Dimethyl sulfoxide
Hybri-Max™, sterile-filtered, BioReagent, suitable for hybridoma, ≥99.7%

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich
D8418
Dimethyl sulfoxide
for molecular biology

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Qualité	BioPerformance Certified
Niveau de qualité	400
Agency	USP XXIV meets EP testing specifications meets USP testing specifications
Densité de vapeur	2.7 (vs air)
Pression de vapeur	0.42 mmHg (20 °C)
Stérilité	sterile-filtered

Forme	liquid
Température d'inflammation spontanée	573 °F
Expl. lim.	42 %, 63 °F
technique(s)	cell culture hybridoma: suitable cryopreservation: suitable
Impuretés	≤0.1% water
Couleur	colorless
Indice de réfraction	$n_{20/D}$ 1.479 (lit.)
Point de bulle	189 °C (lit.)
Pf	16-19 °C (lit.)
Solubilité	H ₂ O: miscible (completely)
Densité	1.10 g/mL (lit.)
SMILES string	<chem>CS(C)=O</chem>
InChI	1S/C2H6OS/c1-4(2)3/h1-2H3
InChI key	IAZDPXIOMUYVGZ-UHFFFAOYSA-N

Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

Catégories apparentées

Bioprocessing Recombinant Supplements

Cell Freezing Reagents

Solvents

DESCRIPTION

Description générale

Dimethyl sulfoxide (DMSO) is an aprotic solvent. Therapeutic and toxic molecules that are not soluble in water are often soluble in DMSO. Liquid nitrogen used in conjunction with a cryoprotective agent such as DMSO is a widely used method for preserving cells. DMSO is used to prepare stock solutions of various molecules and is also used as a control for these molecules. It has been used in cell migration assay for dissolving post-migration cells. BPC-tested DMSO also meets the requirements of biotechnology and tissue engineering applications.

Application

Dimethyl sulfoxide has been used as a vehicle control to culture and induce hepatic stellate cells (HSCs) activation *in vivo*. It has also been used to prepare a stock solution to study the cytotoxicity of ferulic acid (FA) on nucleus pulposus (NP) cells.

Caractéristiques et avantages

Ready-to-use sterile filtered product conveniently packaged in septum screw-capped amber bottles. Meets USP and EP testing requirements

Attention

Supercools easily and remelts slowly at room temperature. Solidified product can be re-liquified by warming to room temperature without detriment to the product.

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

10 - Combustible liquids

WGK

WGK 1

Flash Point(F)

188.6 °F - closed cup

Point d'éclair C

87 °C - closed cup

Équipement de protection individuelle

Eyeshields, Gloves, type
ABEK (EN14387) respirator
filter

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

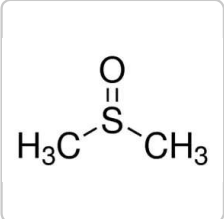
Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)**Rechercher****Plus De Documents**[FT-NMR Spectra](#)[Pressure-Temperature Nomograph](#)[Spectra - ATR-IR](#)[Spectra for FT-IR Raman](#)[Structure Search](#)[FDS](#)**LES CLIENTS ONT ÉGALEMENT CONSULTÉ**



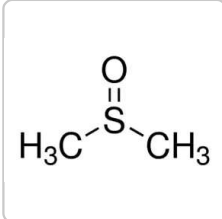
SAFC

1.37117

Dimethyl sulfoxide

EMPROVE® EXPERT, Ph. Eur., USP

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Sigma-Aldrich

472301

Dimethyl sulfoxide

ACS reagent, ≥99.9%

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QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

What is the molarity of DMSO?

DMSO will have a molarity of 14.1M, based on a density of 1.1 g/mL and a molecular weight of 78.13 g/mol.

What is the DMSO dissolved in?

DMSO is not dissolved in any solvent. It is a pure chemical compound that is a liquid at room temperature.

Where does DMSO come from?

DMSO is known to have been isolated from tree bark in the past. It is now a commercially synthesized solvent.

What concentration of DMSO do I use in a cell freezing media?

DMSO is usually used at 1-10%, depending on the cell line. For the cell freezing media that we offer, it is used at 8.7% concentration.

Which document(s) contains shelf-life or expiration date information for a given product?

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

What is the specification for 'pass' for cell freezing on the Certificate of Analysis for Dimethyl sulfoxide (DMSO)?

Product D2438 is assessed for cell freezing. Cells are frozen and stored at -70°C. The cells are thawed, cultured and viability is assessed at 24 hours. There is no evidence of cytotoxicity or abnormal cell growth.

Dimethyl sulfoxide (DMSO) should be a liquid. Why did it arrive as a solid?

DMSO supercools easily, and re-melts slowly at room temperature. The melting point is 16-19 °C. The solidified product can be re-liquefied by warming to room temperature without detriment to the product.

What is the basis for the endotoxin specification for Dimethyl sulfoxide (DMSO)?

The industry standard for 'endotoxin free' is less than 1 EU/mL.

What is the difference between Dimethyl sulfoxide (DMSO) Products. D1435 and D2438?

Products D1435 and D2438 both meet the USP specifications. The D2438 is sterile-filtered, but D1435 is not. Furthermore, the D2438 is quality control tested for endotoxin and use-tested for cell freezing.

What type of filter is used to sterile-filter Dimethyl sulfoxide (DMSO)?

DMSO can be sterile-filtered through a 0.2 micron PTFE filter. The sterility testing is per the current US Pharmacopoeia method.

How do I get lot-specific information or a Certificate of Analysis?

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

[How much dystrophin is enough: the physiological consequences of different levels of dystrophin in the mdx mouse.](#)

Caroline Godfrey et al.

Human molecular genetics, 24(15), 4225-4237 (2015-05-03)

Splice modulation therapy has shown great clinical promise in Duchenne muscular dystrophy, resulting in the production of dystrophin protein. Despite this, the relationship between restoring dystrophin to established dystrophic muscle and its ability to induce clinically relevant changes in muscle

Foretinib is effective therapy for metastatic sonic hedgehog medulloblastoma.

Claudia C Faria et al.

Cancer research, 75(1), 134-146 (2014-11-14)

Medulloblastoma is the most common malignant pediatric brain tumor, with metastases present at diagnosis conferring a poor prognosis. Mechanisms of dissemination are poorly understood and metastatic lesions are genetically divergent from the matched primary tumor. Effective and less toxic therapies

Hydrogen sulphide protects against NSAID-enteropathy through modulation of bile and the microbiota.

Rory W Blackler et al.

British journal of pharmacology, 172(4), 992-1004 (2014-10-10)

Hydrogen sulphide is an important mediator of gastrointestinal mucosal defence. The use of non-steroidal anti-inflammatory drugs (NSAIDs) is significantly limited by their toxicity in the gastrointestinal tract. Particularly concerning is the lack of effective preventative or curative treatments for NSAID-induced

Increased CYFIP1 dosage alters cellular and dendritic morphology and dysregulates mTOR.

A Oguero-Ando et al.

Molecular psychiatry, 20(9), 1069-1078 (2014-10-15)

Rare maternally inherited duplications at 15q11-13 are observed in ~1% of individuals with an autism spectrum disorder (ASD), making it among the most common causes of ASD. 15q11-13 comprises a complex region, and as this copy number variation encompasses many

Chasing central nervous system plasticity: the brainstem's contribution to locomotor recovery in rats with spinal cord injury.

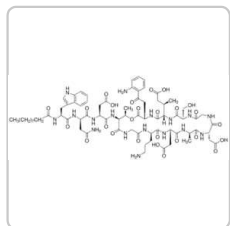
Björn Zörner et al.

Brain : a journal of neurology, 137(Pt 6), 1716-1732 (2014-04-17)

Anatomical plasticity such as fibre growth and the formation of new connections in the cortex and spinal cord is one known mechanism mediating functional recovery after damage to the central nervous system. Little is known about anatomical plasticity in the

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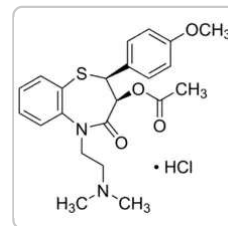
PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

D2446**Daptomycin**

cyclic lipopeptide antibiotic

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Sigma-Aldrich

D2521**(+)-cis-Diltiazem hydrochloride**

≥99% (HPLC)

[Consulter le prix et la disponibilité](#)

Évaluations

[Rédiger une évaluation](#)

Description sommaire de la notation

Sélectionnez une ligne ci-dessous pour filtrer les avis.

5 ★		0
4 ★		1
3 ★		0
2 ★		0
1 ★		0

Notes moyennes des clients

Générale ★★★★★ 4.0

1 AVIS AVEC NOTES UNIQUEMENT

★★★★★ 4.0 | 1 avis

Rechercher des questions et des réponses



1
avis

0
questions

0
réponses

Questions

Soyez le premier à poser une question

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Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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