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DATASHEET

DMSO (Sterile-filtered)

Product overview

Name	DMSO (Sterile-filtered)
Cat No	HB3262
Alternative names	Methyl sulfoxide, Dimethyl Sulfoxide
Purity	>99.9%
Description	Widely used solvent. Improves direct differentiation of pluripotent stem cells and used as a stem cell cryoprotectant

Biological Data

Biological description	Organic solvent widely used for dissolving lipophilic substances. Commonly used as a cryoprotectant in cryopreservation of stem cells. DMSO activates the retinoblastoma (Rb) protein and increases the proportion of cells in the early G1 phase of the cell cycle. DMSO improves directed differentiation of many cell lines. DMSO increases the competency of pluripotent stem cells (in >25 different embryonic and induced pluripotent stem cell lines) to respond to differentiation signals, enhance differentiation across all germ layers and improve terminal differentiation into functional derivatives
	Endotoxin < 0.05 I.E.(EU)/mL

Solubility & Handling

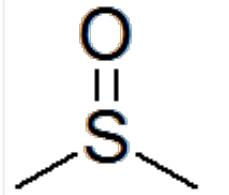
Storage instructions	Room temperature (desiccate)
Handling	This compound is light sensitive. We therefore recommend protecting the compound and solutions from light.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Dimethyl sulfoxide
Molecular Weight	78.13
Chemical structure	

Chemical name

Dimethyl sulfoxide

**Molecular Formula** C_2H_6OS **CAS Number**

67-68-5

PubChem identifier

679

SMILESCS(=O)C**InChi**InChI=1S/C2H6OS/c1-4(2)3/h1-2H3**InChiKey**IAZDPXIOMUYVGZ-UHFFFAOYSA-N**MDL number**

MFCD00002089

Appearance

colourless liquid

References

Cryopreservation of hematopoietic stem cells.

Berz et al (2007) Am J Hematol 82(6):

PubMedID [17266054](#)**A simple tool to improve pluripotent stem cell differentiation.**

Chetty et al (2013) Nat Methods 10(6)

PubMedID [23584186](#)**A cost-effective system for differentiation of intestinal epithelium from human induced pluripotent stem cells.**

Ogaki et al (2015) Sci Rep 30

PubMedID [26616277](#)