SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

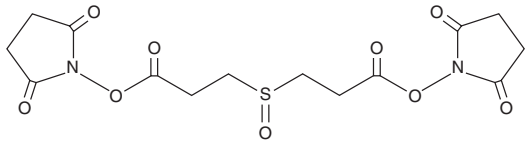
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Disuccinimidyl Sulfoxide

Item No. 9002863

CAS Registry No.: 1351828-03-9
Formal Name: 3,3'-sulfinyl*bis*-propanoic acid, 1,1'-*bis*(2,5-dioxo-1-pyrrolidinyl) ester
Synonym: DSSO
MF: $C_{14}H_{16}N_2O_9S$
FW: 388.3
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Disuccinimidyl sulfoxide (DSSO) is supplied as a crystalline solid. A stock solution may be made by dissolving the DSSO in the solvent of choice. DSSO is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of DSSO in these solvents is approximately 20 and 10 mg/ml, respectively.

DSSO is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, DSSO should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. DSSO has a solubility of approximately 0.15 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

DSSO is a protein cross-linking probe designed to be used with mass spectrometry (MS). It contains two symmetric collision-induced dissociation (CID)-cleavable sites that allow effective identification of DSSO-cross-linked peptides based on their distinct fragmentation patterns.[1] The CID-induced separation of interlinked peptides in MS/MS permits MS^3 analysis of single peptide chain fragment ions with defined modifications, due to DSSO remnants, for easy interpretation and unambiguous identification using existing database searching tools.[1]

Reference

1. Kao, A., Chiu, C.-I., Vellucci, D., *et al.* Development of a novel cross-linking strategy for fast and accurate identification of cross-linked peptides of protein complexes. *Mol. Cell. Proteomics* **10(1)** (2011).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM