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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

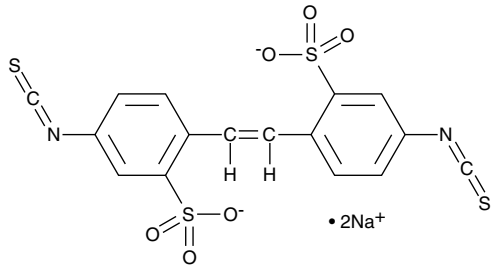
linkedin.com/company/szaboscandic

Product Information

DIDS (sodium salt)

Item No. 16125

CAS Registry No.: 67483-13-0
Formal Name: 2,2'-(1,2-ethenediyl)bis[5-isothiocyanato-benzenesulfonic acid, disodium salt
Synonyms: 4,4'-Diisothiocyanato-2.2'-stilbenedisulfonic acid, MDL 101114ZA
MF: $C_{16}H_8N_2O_6S_4$ • 2Na
FW: 498.5
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 344, 353 nm



Laboratory Procedures

For long term storage, we suggest that DIDS (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.

DIDS (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the DIDS (sodium salt) in the solvent of choice. DIDS (sodium salt) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of DIDS (sodium salt) in these solvents is approximately 20 and 30 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of DIDS (sodium salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of DIDS (sodium salt) in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

DIDS is a stilbene sulfonate that inhibits anionic transport. It has been used to inhibit Cl^- uptake through plasma membrane-localized Cl^- channels in order to study chloride transport.[1] It also effectively inhibits various sodium-coupled bicarbonate transporters.[2]

References

1. Pusch, M., Zifarelli, G., Murgia, A., *et al.* Channel or transporter? The CLC saga continues. *Exp. Physiol.* **91(1)**, 149-152 (2006).
2. Boron, W.F. Sodium-coupled bicarbonate transporters. *JOP* **2(4 Suppl)**, 176-181 (2001).

Related Products

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Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com