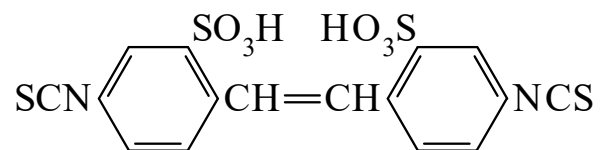




>>Entry Name: 2,2'-(1,2-Ethenediyl)bis[5-isothiocyanatobenzenesulfonic acid], 9Cl

Synonym(s): 4,4'-Diisothiocyanatostilbene-2,2'-disulfonic acid. DIDS



CAS Registry Number: 53005-05-3

Related CAS Registry Numbers(s): 67483-13-0

Molecular Formula: C<sub>16</sub>H<sub>10</sub>N<sub>2</sub>O<sub>6</sub>S<sub>4</sub>

Molecular Weight: 454.529

Accurate Mass: 453.942168

Percentage Composition: C 42.28%; H 2.22%; N 6.16%; O 21.12%; S 28.22%

Use/Importance: Fluorescent labelling reagent

Biological Use/Importance: Chloride channel blocker

Physical Description: Fine red brown cryst. powder

#### References:

- Cabantchik, Z.I. *et al.*, *J. Membr. Biol.*, 1972, **10**, 311; 1974, **15**, 207; 227, (*synth*)  
Shami, Y. *et al.*, *Biochem. Biophys. Res. Commun.*, 1977, **76**, 429-436, (*pharmacol*)  
Ship, S. *et al.*, *J. Membr. Biol.*, 1977, **33**, 311, (*synth*)  
Tsukamoto, T. *et al.*, *Biochemistry*, 1980, **19**, 918, (*use*)  
Niggli, V. *et al.*, *FEBS Lett.*, 1982, **138**, 164, (*use*)  
Ramjeesingh, M. *et al.*, *Membr. Biochem.*, 1982, **4**, 259, (*use*)  
Simons, T.J.B., *J. Physiol. (London)*, 1986, **378**, 287, (*use*)  
Dietrich, J. *et al.*, *J. Gen. Physiol.*, 1994, **104**, 1099-1111, (*pharmacol*)