

disulfanediylbis(ethane-2,1-diyl)bis(4-(chloromethyl)benzoate)

Lot#: P42440

ClCC1=CC=C(C=C1)C(=O)OCCSSCCOC(=O)C2=CC=CC=C2CCl

Mw (g/mol)	Purity:
459.4	98%

Structure confirmation and purity estimation were acquired from ¹H-NMR spectroscopy data.

Chemical structure of compound 10 is shown above the spectrum. The structure is a symmetrical molecule with two 4-ethoxyphenyl groups connected by a central chain containing an amide and a sulfonamide group.

¹H NMR spectrum (CDCl₃) of compound 10. The x-axis represents chemical shift in ppm, ranging from 8.5 to 1.5. The spectrum shows several peaks corresponding to the protons in the molecule. Integration values are provided below the peaks: 1.00, 1.00, 1.00, 1.00, 1.00, and 1.00.

The figure displays the chemical structure of compound 10 and its corresponding ¹H NMR spectrum. The chemical structure is 4-(4-chlorophenyl)-4-oxo-1,3-bis(2-(4-chlorophenyl)ethylthio)butane-1,3-dione, which consists of a central 1,3-bis(2-(4-chlorophenyl)ethylthio)butane-1,3-dione moiety substituted with two 4-chlorophenyl groups. The ¹H NMR spectrum (CDCl₃) shows several peaks: a multiplet at 7.5 ppm (4H), a multiplet at 7.2 ppm (4H), a singlet at 6.0 ppm (4H), a singlet at 5.0 ppm (4H), a multiplet at 4.5 ppm (4H), a multiplet at 3.5 ppm (4H), a multiplet at 3.0 ppm (4H), and a multiplet at 2.5 ppm (4H). The integration values for these peaks are 4.02, 4.02, 4.00, 4.02, 4.02, 4.02, 4.02, and 4.02, respectively, indicating a 1:1:1:1:1:1:1:1 ratio of protons.