



Diethylmaleate

Cat. No.:	OB0225WX-2603
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and HPLC.
Size:	100 mg; 500 mg; 1 g; 5 g

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Diethylmaleate is the diethyl ester derivative of maleic acid that operates by depleting cellular glutathione levels and inhibiting NF-kappaB activation.
Synonym	Diethyl ester; Maleic acid diethyl ester; 141-05-9; Maleic acid, diethyl ester; Maleic acid diethyl ester; diethyl (Z)-but-2-enedioate; 2-Butenedioic acid (Z)-, diethyl ester; diethyl (2Z)-but-2-enedioate; 2-Butenedioic acid (2Z)-, diethyl ester; Diethyl (Z)-2-butenedioate; Diethylester kyseliny maleinove; 1,4-diethyl (2Z)-but-2-enedioate; 2-Butenedioic acid, diethyl ester, (Z)-; 2-Butenedioic acid (2Z)-, 1,4-diethyl ester; 2-Butenedioic acid, diethyl ester, (2Z)-; (2Z)-2-Butenedioic acid, 1,4-diethyl ester; MFCD00009191; Diethyl maleic acid diester; Trans-2-Butenedioic acid diethyl ester; Diethyl ester of (E)-2-Butenedioic acid; 2-Butenedioic acid (2E)-, 1,4-diethyl ester; Diethyl-2-butenedioate
CAS No.	141-05-9
Compound CID	5271566
Formula	C ₈ H ₁₂ O ₄
Formula Weight	172.18

Specification

IUPAC Name	Diethyl (Z)-but-2-enedioate
InChI	InChI=1S/C8H12O4/c1-3-11-7(9)5-6-8(10)12-4-2/h5-6H,3-4H2,1-2H3/b6-5-
InChI Key	IEPRKVQEAMIZSS-WAYWQWQTSA-N



SMILES string	CCOC(=O)/C=C\C(=O)OCC
Stability	2 years in liquid form.
Storage	Storage at -80°C.
Applications	Diethylmaleate is utilized in biochemical research as a glutathione-depleting agent to investigate the cellular responses to oxidative stress and the regulation of antioxidant defense mechanisms.

Library Information

Target	NF-κB; Nrf2
Receptor	NF-κB; Nrf2
Pathways	NF-κB
Plate Number	L6700-06
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	100 mg/mL; 580.78 mM
Water Max Solubility	5 mg/mL
Ethanol Max Solubility	100 mg/mL
ALogP	1.187
HBA_Count	4
HBD_Count	0
Rotatable Bond	6