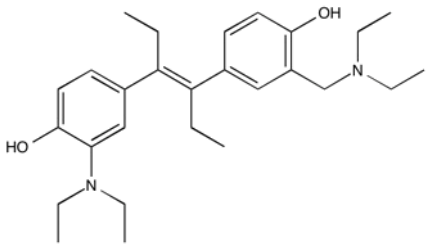
Catalog # 10-1530
NSC33994
82058-16-0
E-4,4'-(1,2-Diethyl-1,2-ethenediyl)bis[2-[(diethylamino)methyl]phenol
G6
Lot # X105444



A remarkably potent and selective JAK2 inhibitor (IC_{50} = 60 nM). Displays no effect on Src and TYK2 tyrosine kinase activity at a concentration of 25 μM[1]. Suppresses JAK2-V617F-mediated human pathological cell growth *in vitro* and *in vivo*[2] and is concomitant with the disruption of intracellular vimentin filaments[3]. Reduces the tumorigenic potential of T98G glioblastoma cells *in vitro* and *in vivo*[4].

1) Kiss *et al*. (2009), *Identification of a novel inhibitor of JAK2 tyrosine kinase by structure-based virtual screening*; Bioorg Med. Chem. Lett., **19** 3598
2) Kirabo *et al*. (2011), *The stilbenoid tyrosine kinase inhibitor, G6, suppresses Jak2-V617F-mediated human pathological cell growth in vitro and in vivo* J. Biol. Chem., **286** 4280
3) Majumder *et al*. (2011), *Cell death induced by the Jak2 inhibitor, G6, correlates with cleavage of vimentin filaments*; Biochemistry, **50** 7774
4) Baskin *et al*. (2014), *The Jak2 small molecule inhibitor, G6, reduces the tumorigenic potential of T98G glioblastoma cells in vitro and in vivo*; PLoS One, **9(8)** e105568

PHYSICAL DATA

Molecular Weight:	438.65
Molecular Formula:	$C_{28}H_{42}N_2O_2$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 2 mg/ml with warming), Ethanol (up to 4 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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