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## DATASHEET

NSC 33994

### Product overview

<b>Name</b>	NSC 33994
<b>Cat No</b>	HB1430
<b>Alternative names</b>	G6
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Potent, selective JAK2 inhibitor

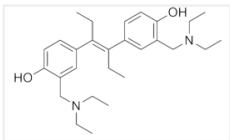
### Biological Data

<b>Biological description</b>	Potent and selective JAK2 inhibitor (IC <sub>50</sub> = 60 nM). Shows anti-neoplastic actions.
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### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (5mM, gentle warming) or ethanol (10mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	<i>E</i> -4,4'-(1,2-Diethyl-1,2-ethenediyl)bis[2-[(diethylamino)methyl]phenol]
<b>Molecular Weight</b>	438.65
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>28</sub> H <sub>42</sub> N <sub>2</sub> O <sub>2</sub>
<b>CAS Number</b>	82058-16-0
<b>PubChem identifier</b>	5473838
<b>SMILES</b>	CC/C(C2=CC=C(O)C(CN(CC)CC)=C2)=C(CC)\C1=CC(CN(CC)CC)=C(O)C=C1
<b>InChiKey</b>	QFNJFVBKASKGEU-OCEACIFDSA-N

### References

#### Identification of a novel inhibitor of JAK2 tyrosine kinase by structure-based virtual screening.

Kiss R *et al* (2009) Bioorg Med Chem Lett 19(13)  
**PubMedID** [19447617](#)

#### The Jak2 small molecule inhibitor, G6, reduces the tumorigenic potential of T98G glioblastoma cells in vitro and in vivo.

Baskin R *et al* (2014) PLoS One 9(8)  
**PubMedID** [25162558](#)

**The Jak2 inhibitor, G6, alleviates Jak2-V617F-mediated myeloproliferative neoplasia by providing significant therapeutic efficacy to the bone marrow.**

Kirabo A *et al* (2011) *Neoplasia* 13(11)

**PubMedID**

[22131881](#)

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