

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customer-care-usa@m2stage.hellobio.com



DATASHEET

NSC 33994

Product overview

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

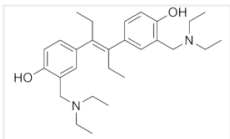
Biological Data

Biological description	Potent and selective JAK2 inhibitor ($IC_{50} = 60$ nM). Shows anti-neoplastic actions.
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Solubility & Handling

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

Chemical Data

Chemical name	<i>E</i> -4,4'-(1,2-Diethyl-1,2-ethenediyl)bis[2-[(diethylamino)methyl]phenol]
Molecular Weight	438.65
Chemical structure	
Molecular Formula	$C_{28}H_{42}N_2O_2$
CAS Number	82058-16-0
PubChem identifier	5473838
SMILES	<chem>CC/C(C2=CC=C(C(O)C(CN(CC)CC)=C2)=C(CC)\C1=CC(CN(CC)CC)=C(O)C=C1</chem>
InChIKey	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
