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DATASHEET

NSC 3852

Product overview

Name	NSC 3852
Cat No	HB1392
Alternative names	5-nitroso-8-quinolinol
Biological action	Inhibitor
Description	Non-selective HDAC inhibitor

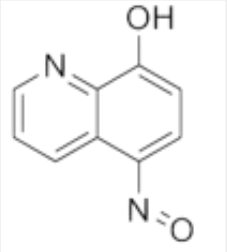
Biological Data

Biological description	Non-selective histone deacetylase (HDAC) inhibitor. Causes reactive oxygen species release and damages DNA. Shows anti-proliferative, apoptotic, anti-cancer and anti-protozoal actions.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100mM) 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	5-Nitroso-8-quinolinol
Molecular Weight	174.16
Chemical structure	
Molecular Formula	$C_9H_6N_2O_2$
CAS Number	3565-26-2
PubChem identifier	19103
SMILES	OC1=C2N=CC=CC2=C(C=C1)N=O
InChiKey	RZWRYPGAUIOOMK-UHFFFAOYSA-N

References

Differentiation-inducing quinolines as experimental breast cancer agents in the MCF-7 human breast cancer cell model.

Martirosyan AR *et al* (2004) Biochem Pharmacol 68(9)
PubMedID 15450938

Actions of a histone deacetylase inhibitor NSC3852 (5-nitroso-8-quinolinol) link reactive oxygen species to cell differentiation and apoptosis in MCF-7 human mammary tumor cells.

Martirosyan A *et al* (2006) J Pharmacol Exp Ther 317(2)
PubMedID 16497787

Inhibition of Toxoplasma gondii and Plasmodium falciparum infections in vitro by NSC3852, a redox active antiproliferative and tumor cell differentiation agent.

Strobl JS *et al* (2009) J Parasitol 95(1)
PubMedID 18837587