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DATASHEET

MS 436

Product overview

Name	MS 436
Cat No	HB1450
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective BRD4 bromodomain inhibitor

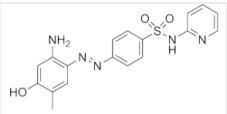
Biological Data

Biological description	Potent and selective BRD4 bromodomain inhibitor (K_i = 30-50 nM). Selective for the first over the second bromodomain. Inhibits the activity of BRD4 in macrophage nitric oxide and Il-6 production. Alters colony integrity in embryonic stem cells. Shows antiproliferative and anticancer actions.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (100mM)
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	(*E*)-4-[2-(2-Amino-4-hydroxy-5-methylphenyl)diazenyl]-*N*-2-pyridinylbenzenesulfonamide
Molecular Weight	383.42
Chemical structure	
Molecular Formula	$C_{18}H_{17}N_5O_3S$
CAS Number	1395084-25-9
PubChem identifier	60171585
SMILES	NC1=C(/N=N/C2=CC=C(S(NC3=NC=CC=C3)(=O)=O)C=C2)C=C(C)C(O)=C1
InChiKey	BBJDRANVVNBXAR-JWGURIENSA-N

References

BRD4 sustains melanoma proliferation and represents a new target for epigenetic therapy.

Segura MF *et al* (2013) Cancer Res 73(20)
PubMedID 23950209

Structure-guided design of potent diazobenzene inhibitors for the BET bromodomains.

Zhang G *et al* (2013) J Med Chem 56(22)
PubMedID 24144283

Control of embryonic stem cell identity by BRD4-dependent transcriptional elongation of super-enhancer-associated pluripotency genes.

Di Micco R *et al* (2014) Cell Rep 9(1)

PubMedID 25263550