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DATASHEET

I-BET 151 hydrochloride

Product overview

Name	I-BET 151 hydrochloride
Cat No	HB1446
Alternative names	I-BET151, GSK1210151A
Biological action	Inhibitor
Purity	>98%
Description	BET bromodomain inhibitor, also promotes differentiation of hiPSCs into megakaryocytes

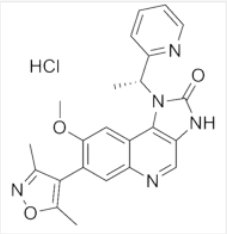
Biological Data

Biological description	BET bromodomain inhibitor. Inhibits cytokine-induced transcription of STAT targets and downregulates cytokine production. Shows anti-inflammatory and anti-cancer actions. Promotes differentiation of hiPSCs into megakaryocytes.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (100mM) or ethanol (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	7-(3,5-Dimethyl-4-isoxazolyl)-1,3-dihydroxy-8-methoxy-1-[(1*R*)-1-(2-pyridinyl)ethyl]-2*H*-imidazo[4,5-*c*]quinolin-2-one hydrochloride
Molecular Weight	451.9
Chemical structure	
Molecular Formula	$C_{23}H_{21}N_5O_3$.HCl
CAS Number	1883545-47-8
PubChem identifier	170320
SMILES	O=C(N3[C@H](C)C4=NC=CC=C4)NC2=C3C1=CC(OC)=C(C5=C(C)ON=C5C)C=C1N=C2.Cl.Cl
InChiKey	IQOJZZHRYSSFJM-UHFFFAOYSA-N

References

The BET Bromodomain Inhibitor I-BET151 Acts Downstream of Smoothened Protein to Abrogate the Growth of Hedgehog Protein-driven Cancers.

Long J *et al* (2014) J Biol Chem 289(51)

PubMedID 25355313

BET bromodomain inhibition suppresses transcriptional responses to cytokine-Jak-STAT signaling in a gene-specific manner in human monocytes.

Chan CH *et al* (2015) Eur J Immunol 45(1)
PubMedID 25345375

Control of NF-kB activity in human melanoma by bromodomain and extra-terminal protein inhibitor I-BET151.

Gallagher SJ *et al* (2014) Pigment Cell Melanoma Res 27(6)
PubMedID 24924589