

## DATASHEET

### I-BET 151 hydrochloride

#### Product overview

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

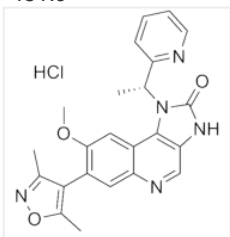
#### Biological Data

<b>Biological description</b>	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.
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#### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (100mM) or ethanol (100mM)
<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>	7-(3,5-Dimethyl-4-isoxazolyl)-1,3-dihydroxy-8-methoxy-1-[(1 <i>R</i> )-1-(2-pyridinyl)ethyl]-2 <i>H</i> -imidazo[4,5- <i>c</i> ]quinolin-2-one hydrochloride
<b>Molecular Weight</b>	451.9
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>23</sub> H <sub>21</sub> N <sub>5</sub> O <sub>3</sub> ·HCl
<b>CAS Number</b>	1883545-47-8
<b>PubChem identifier</b>	170320
<b>SMILES</b>	<chem>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</chem>
<b>InChiKey</b>	IQOJZZHRYSSFJM-UHFFFAOYSA-N

#### References

##### The BET Bromodomain Inhibitor I-BET151 Acts Downstream of Smoothed 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- $\kappa$ B 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

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