



## dBET1

Catalog No: tcsc0021961

4	Available Sizes
Size: 2	lmg
Size: 5	img
Size: 1	.0mg
Size: 2	25mg
Size: 5	i0mg
Size: 1	.00mg
	Specifications
<b>CAS N</b> 17997	<b>o:</b> l1-21-9
Formu	la: ,CIN <sub>8</sub> O <sub>7</sub> S
<b>Pathw</b> Epigen	ay: etics;PROTAC
<b>Target</b> Epigen	t: etic Reader Domain;PROTAC
Purity >98%	/ Grade:
<b>Solubi</b> 10 mM	lity: in DMSO
<b>Obser</b> 785.27	ved Molecular Weight:



## **Product Description**

dBET1 is a potent **BRD4** protein degrader based on **PROTAC** technology with an  $EC_{50}$  of 430 nM.

IC50 & Target: EC<sub>50</sub>: 430 nM (BRD4)<sup>[1]</sup>

In Vitro: Treatment with dBET1 down regulates MYC and PIM1 transcription. Degradation of BRD4 by dBET1 is associated with a more potent apoptotic consequence in MV4;11 cell line. Significantly increased apoptosis after only 4 h of dBET1 treatment is enhanced at 8 h. dBET1 also induces a potent and superior inhibitory effect on MV4;11 cell proliferation at 24 hours (measured by ATP content,  $IC_{50} = 0.14 \, \mu\text{M}$ , compare to  $IC_{50} = 1.1 \, \mu\text{M}$  with  $JQ1)^{[1]}$ .

*In Vivo:* Administration of dBET1 attenuates tumor progression as determined by serial volumetric measurement, and decreases tumor weight assessed post-mortem. Acute pharmacodynamic degradation of BRD4 is observed four hours after a first or second daily treatment with dBET1 (50 mg/kg IP). A statistically significant destabilization of BRD4, down regulation of MYC and inhibition of proliferation is observed with dBET1 compare to vehicle control in excised tumors. Two weeks of dBET1 is well tolerated by mice without a meaningful effect on weight, white blood count, hematocrit or platelet count<sup>[1]</sup>.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!