Purdue Bioscience

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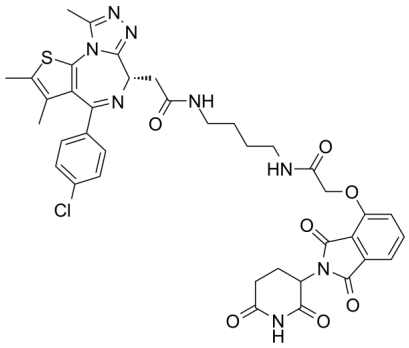
Certificate of Analysis

Catalog Number	BP13790
Product Name	dBET1

Physical and Chemical Properties

CAS No.	1799711-21-9
Chemical Formula	C38H37ClN8O7S
Molecular Weight	785.27
Solubility	DMSO: 50 mg/mL H2O: Insoluble; Ethanol: 5 mg/mL
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	dBET1 is a hybrid molecule that combines (+)-JQ1 and thalidomide. It induces cereblon-dependent BET protein degradation in vitro (EC50: 430 nM) and induces apoptosis.

Targets&IC50	BET:430 nM (EC50)
In vitro	dBET1 induced a potent and superior inhibitory effect on MV4;11 cell proliferation at 24 hours (measured by ATP content, IC50 = 0.14 μM, compared to IC50 = 1.1 μM with JQ1) consistent with the reported, pronounced inhibitory effect of RNA silencing of BRD4 in this and other models of MLL-rearranged leukemia.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

https://www.purduebio.com

1-877.618.7311

info@purduebio.com

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