TOCRIS
a bio-techne brand

Print Date: May 4th 2022

Certificate of Analysis

www.tocris.com

Product Name: **dBET6** **Catalog No.: 6945** **Batch No.: 1**

CAS Number: 1950634-92-0

IUPAC Name: (6*S*)-4-(4-Chlorophenyl)-*N*-[8-[[2-[[2-(2,6-dioxo-3-piperidinyl)-2,3-dihydro-1,3-dioxo-1*H*-isoindol-4-yl]oxy]acetyl]amino]octyl]-2,3,9-trimethyl-6*H*-thieno[3,2-*f*][1,2,4]triazolo[4,3-*a*][1,4]diazepine-6-acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{42}H_{45}ClN_8O_7S.½H_2O$

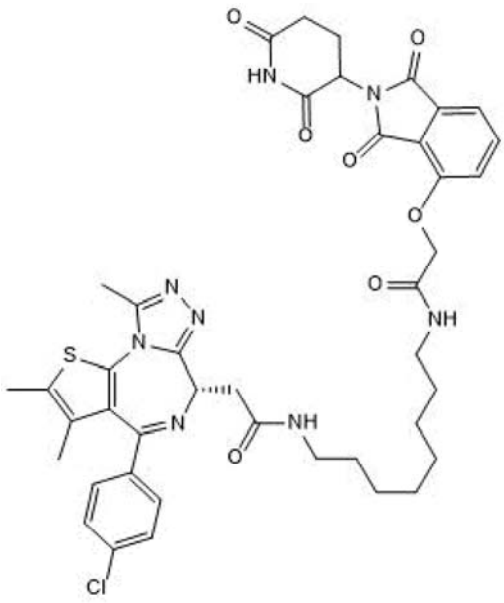
Batch Molecular Weight: 850.39

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.32	5.45	13.18
Found	58.9	5.46	13.06

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

Product Name: **dBET6** **Catalog No.: 6945** **Batch No.: 1**

CAS Number: 1950634-92-0

IUPAC Name: (6*S*)-4-(4-Chlorophenyl)-*N*-[8-[[2-[[2-(2,6-dioxo-3-piperidinyl)-2,3-dihydro-1,3-dioxo-1*H*-isoindol-4-yl]oxy]acetyl]amino]octyl]-2,3,9-trimethyl-6*H*-thieno[3,2-*f*][1,2,4]triazolo[4,3-*a*][1,4]diazepine-6-acetamide

Description:

dBET6 is a potent and selective Degrader (PROTAC®) of BET bromodomains (IC_{50} = ~10 nM). dBET6 comprises BET antagonist (+)-JQ1 (Cat.No. 4499) conjugated to a cereblon E3 ubiquitin ligase ligand. Exhibits antitumor activity against T cell acute lymphoblastic leukemia (T-ALL) lines through BRD4 degradation. Induces apoptosis. Reduces leukemic burden in a mouse model of T-ALL. Cell permeable. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

Physical and Chemical Properties:

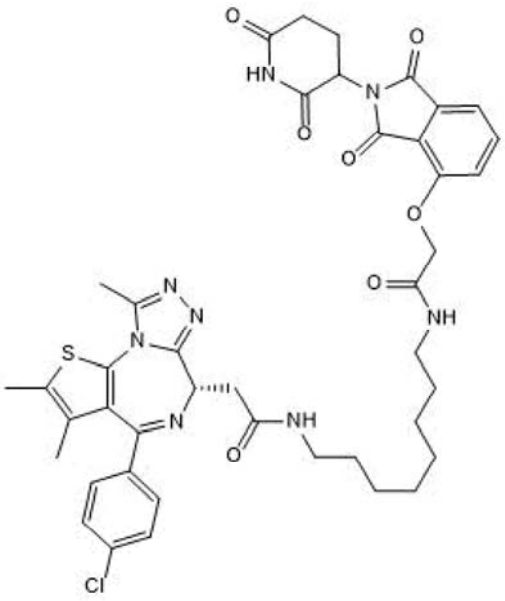
Batch Molecular Formula: $C_{42}H_{45}ClN_8O_7S.½H_2O$

Batch Molecular Weight: 850.39

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold under license from Dana-Farber Cancer Institute

References:

Nowak *et al* (2018) Plasticity in binding confers selectivity in ligand-induced protein degradation. Nat.Chem.Biol. ***14*** 706. PMID: 29892083.

Verstovsek *et al* (2017) Targeting cistrome and dysregulated transcriptome of post-MPN sAML. Oncotarget ***8*** 93301. PMID: 29212143.

Winter *et al* (2017) BET Bromodomain proteins function as master transcription elongation factors independent of CDK9 recruitment. Mol. Cell ***67*** 5. PMID: 28673542.