

## (-)-JQ1

Cat. No. CEI-1028

Lot. No. (See product label)

### Introduction

#### Description

(-)-JQ1 is the inactive stereoisomer of the potent, cell-permeable, small molecule bromodomain inhibitor (+)-JQ1 that competitively binds to acetyl-lysine recognition motifs. (+)-JQ1 competitively binds to the bromodomain displacing the BRD4 fusion oncoprotein from chromatin, which induces squamous differentiation and specific anti-proliferative effect in BRD4-dependent cell lines and patient-derived xenograft models. However, study results have shown that (-)-JQ1 fails to significantly interact with any bromodomain tested and exhibits inhibition against BRD4(1) with an IC<sub>50</sub> of 10,000 nM.

#### Synonyms

(R)-tert-butyl 2-(4-(4-chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl)acetate

### Product Information

#### Appearance

Yellowish, white crystalline powder.

#### CAS No.

1268524-71-5

#### Molecular Formula

C<sub>23</sub>H<sub>25</sub>ClN<sub>4</sub>O<sub>2</sub>S

#### Molecular Weight

457.0 kDa

#### Purity

>98%

#### Targets

BET

#### Solubility

Soluble in DMSO or ethanol at 100 mM

### Storage and Shipping Information

#### Stability

Store at or below -80°C. Stable for less than 6 months when stored as directed.