Creative Enzymes®

(-)-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 and IC50 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 C23H25ClN4O2S

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.