

JAK2 Inhibitor V, Z3

Cat. No. CEI-1063

Lot. No. (See product label)

Introduction

Description A cell-permeable pyridinylbutanone compound that inhibits cellular autophosphorylation of both the wild-type Jak2 and the constitutively active V167F mutant ($IC_{50} = 15$ & $28 \mu M$, respectively, with WT- & V617F-transfected BSC-40 cells), while exhibiting no effect against cellular Tyk2 autophosphorylation in COS cells or c-Src kinase in cell-free kinase assays. Z3 suppresses the Jak2-V167F-dependent proliferation of the erythroleukemia cell line HEL by blocking the G1-S transition and is shown to effectively reduce the cytokine-stimulated growth of both Jak2-V617F-positive and Jak2-F537I-positive primary hematopoietic progenitor cells from myeloproliferative disorder patients.

Synonyms JTK10, THCYT3

Product Information

CAS No. 195371-52-9

Molecular Formula C₂₃H₂₄N₂O

Chemical Name 2-Methyl-1-phenyl-4-pyridin-2-yl-2-(2-pyridin-2-ylethyl)butan-1-one

Molecular Weight 344.5

Purity >97% by HPLC

Targets Jak2, the constitutively active V167F mutant

IC₅₀ 15 μM , 28 μM

Solubility DMSO or EtOH

Storage and Shipping Information

Storage +2 centigrade to +8 centigrade