

JAK3 Inhibitor IV

Cat. No. CEI-1064

Lot. No. (See product label)

Introduction

Description A (β -aminoethyl)ketone that acts as a potent and selective ATP-competitive inhibitor of Janus tyrosine kinase-3 (JAK3; pIC_{50} = 7.1). A weak inhibitor of other tyrosine kinases (pIC_{50} = 5.6 for EGF-R; 4.4 for JAK1). It undergoes a retro-Michael breakdown ($t_{1/2}$ = 36 min at 25centigrade, pH 7.43) to another active 2-naphthylvinyl ketone analog (JAK Inhibitor V; Cat. No. 420122) [pIC_{50} = 6.8 for JAK3; 5.0 for EGF-R; 4.7 for JAK1].

Synonyms JAK-3, JAK3_HUMAN, JAKL, L-JAK, LJAK

Product Information

CAS No. 58753-54-1

Molecular Formula C₂₃H₂₅NO · HCl

Chemical Name 2-Naphthyl-(N-isopropyl,N-benzyl)- β -aminoethylketone, HCl, ZM 39923

Molecular Weight 367.9

Purity >99% by HPLC

Targets JAK-3, JAK-1, EGF-R

Solubility DMSO

Storage and Shipping Information

Storage -20 centigrade