

Lck Inhibitor

Catalog No: tcsc1448



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

847950-09-8

Formula:

$C_{31}H_{30}N_8O$

Pathway:

Protein Tyrosine Kinase/RTK

Target:

Src

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

530.62

Product Description

Lck Inhibitor is a new class of compounds that are potent inhibitors of Lck with an IC50 value of 7 nM.

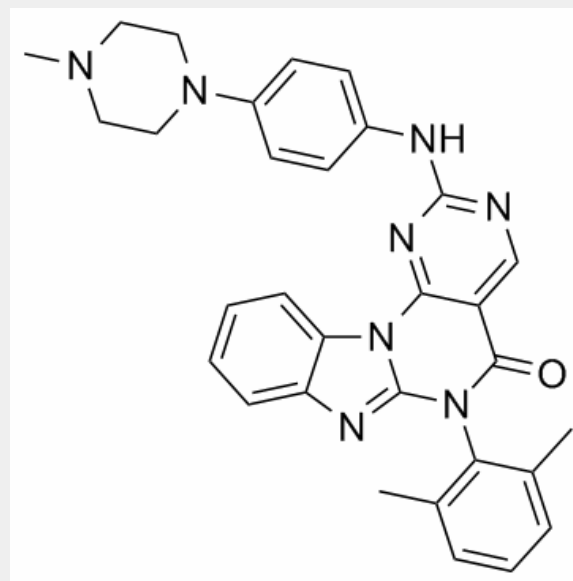
IC50 Value: 7 nM [1]

Target: Lck

in vitro: Lck Inhibitor (compound 25) exhibited good potency in the T-cell receptor-induced IL-2 secretion assay (IL- 2) and also inhibited subsequent T-cell proliferation (T-cell prolif.) in the same human T -cells.

in vivo: A once daily dose of 25 was administered orally at 10, 30, and 60 mg/kg from day 9 to day 17. Paw volume was measured daily from day 9 through day 18. The compound showed a dose-dependent inhibition of arthritis, with an ED50 estimated at 24 mg/kg (Figure 6). Based on the measured plasma levels from the three dose groups, the exposure of 25 at the ED50 was estimated to be 2.7 $\mu\text{M}\cdot\text{h}$ ($C_{\text{max}} \approx 0.7 \mu\text{M}$) [1].

Clinical trial: N/A



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!