

# CK-636

Catalog No: tcsc2551



## Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

442632-72-6

**Formula:**

$C_{16}H_{16}N_2OS$

**Pathway:**

Cytoskeleton

**Target:**

Arp2/3 Complex

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 49$  mg/mL (172.30 mM)

**Alternative Names:**

CK-0944636

**Observed Molecular Weight:**

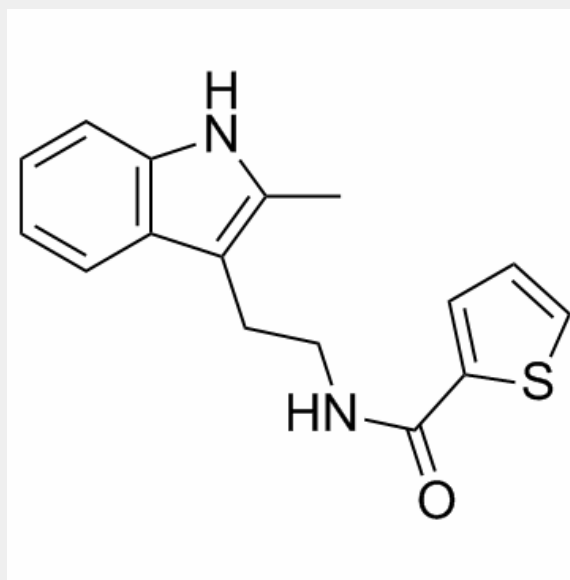
284.38

## Product Description

CK-636 is a cell permeable inhibitor of **Arp2/3 complex**, that could inhibit actin polymerization, with **IC<sub>50</sub>** values of 4  $\mu$ M, 24  $\mu$ M and 32  $\mu$ M for human, fission yeast and bovine, respectively.

IC50 & Target: IC50: 4/24/32  $\mu$ M (Human/fission yeast/bovine Arp2/3)<sup>[1]</sup>.

**In Vitro:** CK-636 binds between Arp2 and Arp3, where it appears to block movement of Arp2 and Arp3 into their active conformation. CK-636 inserts into the hydrophobic core of Arp3 and alters its conformation. CK-636 prevents actin polymerization and the formation of actin filament comet tails by Listeria in infected SKOV3 cells (IC<sub>50</sub>=22  $\mu$ M)<sup>[1]</sup>. Additionally, CK-636-treated T cells exhibits elongated morphology with sharp pseudopodia at the leading edges, while the breadth of the CK-636-treated T cells is about 30% less than that of DMSO-treated T cells<sup>[2]</sup>.



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