Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Diaveridine

Catalog No: tcsc0013961

Available Sizes

Size: 250mg

Size: 1g

Size: 5g

Specifications

CAS No:
5355-16-8

Formula:
$C_{13}H_{16}N_4O_2$

Pathway:
Cell Cycle/DNA Damage;Anti-infection

Target:
Antifolate;Bacterial

Purity / Grade:
>98%

Solubility:
DMSO : 32 mg/mL (122.94 mM; Need ultrasonic)

Alternative Names:
EGIS-5645

Observed Molecular Weight:
260.29

Product Description

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Diaveridine (EGIS-5645) is a **dihydrofolate reductase** (**DHFR**) inhibitor with a **K_i** of 11.5 nM for the wild type DHFR and also an antibacterial agent.

IC50 & Target: Ki: 11.5 nM (DHFR) [1]

Bacterial[2]

In Vitro: Diaveridine is a dihydrofolate reductase (DHFR) inhibitor with a K_i of 11.5 nM for the wild type DHFR and also an antibacterial agent[1]. Treatments with Diaveridine for 90 min have a strong bactericidal effect on *S. typhimurium* TA1535, and no bacterial growth is observed at 10μg/mL or more. Without metabolic activation, treatment with Diaveridine for 48 h, but not 24 h, causes a dose-dependent, significant increase in the frequency of aberrant metaphases. At 100 μg/mL, 60% of the metaphases contain chromosome aberrations[2].

In Vivo: The sperm abnormality of the Diaveridine (DVD) treatment groups at all dose levels (Diaveridine, 128 to 512 mg/kg) shows no significant differences compare with the negative control group. There are no significant differences of micronucleus between the negative control group and the Diaveridine treatment groups (Diaveridine, 128 to 512 mg/kg). The chromosome aberration of the Diaveridine treatment groups at all dose levels and the negative control group are significantly lower than those in the positive control group treated with cyclophosphamide (P[3].