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

Avatrombopag

Catalog No: tcsc3397

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
570406-98-3

Formula:
$C_{29}H_{34}Cl_2N_6O_3S_2$

Pathway:
Immunology/Inflammation

Target:
Thrombopoietin Receptor

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 32 mg/mL (49.26 mM)

Alternative Names:
AKR-501; E5501; YM477

Observed Molecular Weight:
649.65

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Product Description

Avatrombopag(AKR-501; AS1670542) is a novel orally-active thrombopoietin(TPO) receptor agonist with EC50 of 3.3 nM.

EC50 value: 3.3 nM [1]

Target: TPO receptor agonist

in vitro: AKR-501 specifically targeted the TPO receptor and stimulated megakaryocytopoiesis throughout the development and maturation of megakaryocytes just as rhTPO did. AKR-501, however, was shown to be effective only in humans and chimpanzees with high species specificity [1]. AS1670542 has 50% effective concentration values for cell proliferation with AS1670542 or eltrombopag were 1.9 and 13nM, respectively, while those for megakaryocyte colony formation from human cord blood CD34(+) cells with AS1670542 or eltrombopag were 260 and 950nM, respectively [2].

in vivo: Daily oral administration of AKR-501 dose-dependently increased the number of human platelets in in human platelet producing non-obese diabetic/severe combined immunodeficiency (NOD/SCID) mice transplanted with human fetal liver CD34(+) cells, with significance achieved at doses of 1 mg/kg and above. The peak unbound plasma concentrations of AKR-501 after administration at 1 mg/kg in NOD/SCID mice were similar to those observed following administration of an active oral dose in human subjects [1]. AS1670542 significantly increased the number of human platelets in non-obese diabetic/severe combined immunodeficiency (NOD/SCID) mice with transplanted human hematopoietic stem cells at 0.3 (P