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## Product Data Sheet

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Product Name: Avatrombopag (AKR-501)

Cat. No.: GC31670

### Chemical Properties

Cas. No. 570406-98-3

SMILES O=C(C1CCN(C2=NC=C(C(NC3=NC(C4=CC(Cl)=CS4)=C(N5CCN(C6CCCCC6)CC5)S3)=O)C=C2Cl)CC1)O

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

M.Wt

649.65

Solubility DMSO :  $\geq 32$  mg/mL (49.26 mM)

Storage

Store at  $-20^{\circ}C$

General For obtaining a higher solubility , please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon Condition request.

Structure

### Background

Avatrombopag is an agonist of the thrombopoietin receptor.<sup>1</sup> It induces proliferation of Ba/F3 cells expressing the thrombopoietin receptor ( $EC_{50} = 3.3$  nM) and induces differentiation of hematopoietic progenitor cells into megakaryotes. Avatrombopag is species-specific, inducing STAT5 phosphorylation in human and chimpanzee blood platelets, but not in olive baboon, rhesus monkey, rat, hamster, or several other species blood platelets. It increases the number of human platelets in NOD/SCID mice transplanted with  $CD34^{+}$  human fetal liver cells when administered at doses of 1 and 3 mg/kg. Formulations containing avatrombopag have been used in the treatment of thrombocytopenia in adults.

1. Fukushima-Shintani, M., Suzuki, K., Iwatsuki, Y., et al. AKR-501 (YM477) a novel orally-active thrombopoietin receptor agonist. *Eur. J. Haematol.* 82(4):247-254(2009)

**Caution: Product has not been fully validated for medical applications. For research use only.**

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