

Ticagrelor Catalog No: tcsc0619

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:

274693-27-5

Formula:

 $C_{23}H_{28}F_2N_6O_4S$

Pathway:

GPCR/G Protein

Target:

P2Y Receptor

Purity / Grade:

Solubility: DMSO : \geq 50 mg/mL (95.68 mM)

Alternative Names:

AR-C 126532XX;AZD6140

Observed Molecular Weight:

522.57

Product Description

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Ticagrelor (AZD6140) is a reversible oral **P2Y12** receptor antagonist for the treatment of platelet aggregation.

In Vitro: Ticagrelor promotes a greater inhibition of adenosine 5′-diphosphate (ADP)-induced Ca²⁺ release in ished platelets vs other P2Y12R antagonists. This additional effect of ticagrelor beyond P2Y12R antagonism is in part as a consequence of ticagrelor inhibiting the equilibrative nucleoside transporter 1 (ENT1) on platelets, leading to accumulation of extracellular adenosine and activation of Gs-coupled adenosine A2A receptors^[1]. B16-F10 cells exhibit decreased interaction with platelets from ticagrelor-treated mice compared to saline-treated mice^[2].

In Vivo: In B16-F10 melanoma intravenous and intrasplenic metastasis models, mice treated with a clinical dose of ticagrelor (10 mg/kg) exhibits marked reductions in lung (84%) and liver (86%) metastases. Furthermore, ticagrelor treatment improves survival compared to saline-treated animals. A similar effect is observed in a 4T1 breast cancer model, with reductions in lung (55%) and bone marrow (87%) metastases following ticagrelor treatment^[2]. Single oral administration of ticagrelor (1-10 mg/kg) causes dose-related inhibitory effect on platelet aggregation. Ticagrelor, at the highest dose (10 mg/kg) significantly inhibits platelet aggregation at 1 h after dosing and the peak inhibition is observed at 4 h after dosing^[3].



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