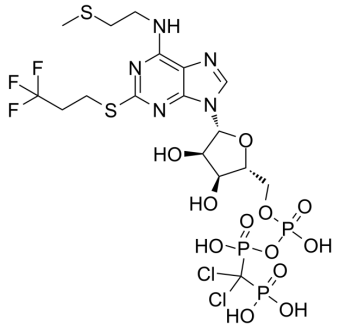
Cangrelor

Cat. No.:	HY-19638
CAS No.:	163706-06-7
Molecular Formula:	$C_{17}H_{25}Cl_2F_3N_5O_{12}P_3S_2$
Molecular Weight:	776.36
Target:	P2Y Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cangrelor (AR-C69931MX), an adenosine triphosphate analogue, is an intravenous, reversible and selective platelet P2Y12 antagonist, with prompt and potent antiplatelet effects. Cangrelor directly blocks adenosine diphosphate (ADP)-induced activation and aggregation of platelets. Cangrelor is also a nonspecific GPR17 antagonist[1][2].
IC_{50} & Target	P2Y12
In Vitro	Cangrelor tetrasodium has pK_b of 8.6-9.2 for hP2Y12 receptor[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Cangrelor tetrasodium (10 mg/kg) not only significantly decreases BLM-induced release of inflammatory cytokines (PF4, CD40 L and MPO), but also decreases the increment of platelets, neutrophils and platelet-neutrophil aggregates in the fibrotic lung and in the peripheral blood of BLM-treated mice[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Mol Nutr Food Res. 2022 May 1;e2200166.

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REFERENCES

[1]. Bhattad VB, , et al. Intravenous cangrelor as a peri-procedural bridge with applied uses in ischemic events. Ann Transl Med. 2019;7(17):408.

[2]. Zhan T, Wei T, et al. Cangrelor alleviates bleomycin-induced pulmonary fibrosis by inhibiting platelet activation in mice. Mol Immunol. 2020;120:83-92.

[3]. Bekő K, et al. Contribution of platelet P2Y12 receptors to chronic Complete Freund's adjuvant-induced inflammatory pain. J Thromb Haemost. 2017;15(6):1223-1235.

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

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