Cangrelor (sodium salt)
Item No. 22086

CAS Registry No.: 163706-36-3
Formal Name: N-[2-(methylthio)ethyl]-2-[3,3,3-
trifluoropropyl]thio]-5'-adenylic acid, anhydride
with P,P'-(dichloromethylene)bis[phosphonic
acid], tetrasodium salt
Synonym: AR-C69931MX
MF: C_{17}H_{21}Cl_{2}F_{3}N_{5}O_{12}P_{3}S_{2} • 4Na
FW: 864.3
Purity: ≥98%
Supplied as: A solid
Storage: 4°C
Stability: ≥1 year

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Cangrelor (sodium salt) is supplied as a solid. A stock solution may be made by dissolving the cangrelor (sodium salt) in water. We do not recommend storing the aqueous solution for more than one day.

Description

Cangrelor is an ATP analog that inhibits platelet aggregation (IC_{50} = 0.4 nM).

It is a reversible competitive antagonist of the platelet purinergic P2Y_{12} receptor. Pretreatment with cangrelor significantly reduces blood clotting induced by ADP in a mouse model of pulmonary thromboembolism. Formulations containing cangrelor have been used to prevent blood clotting in at-risk patients.

References