
Product Data Sheet

Product Name: Prasugrel Maleic acid

Cat. No.: GC36957

Chemical Properties

Cas. No. 389574-20-3

SMILES O=C(O)/C=C\C(O)=O.FC1=CC=CC=C1C(C(C2CC2)=O)N3CCC4=C(C3)C=C(S4)OC(C)=O

Formula $C_{24}H_{24}FNO_7S$ M.Wt 489.51

Solubility Soluble in DMSO 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 tips 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 Condition blue ice upon request.

Structure

Background

Prasugrel (PCR 4099) Maleic acid is a platelet inhibitor with IC_{50} value of $1.8 \mu M$. P2Y₁₂ receptor.

Prasugrel (PCR 4099) is a novel platelet inhibitor used for the reduction of thrombotic cardiovascular events (including stent thrombosis) in patients with acute coronary syndrome who are to be managed with PCI [2]. Prasugrel (PCR 4099) reduces the aggregation ("clumping") of platelets by irreversibly binding to P2Y₁₂ receptors. In rat platelets, prasugrel Maleic acid AM inhibited in vitro platelet aggregation induced by ADP ($10 \mu M$) with an IC_{50} value of $1.8 \mu M$ [2].

[1]. Baker WL, et al. Role of prasugrel, a novel P2Y(12) receptor antagonist, in the management of acute coronary syndromes. Am J Cardiovasc Drugs. 2009;9(4):213-29. [2]. Sugidachi A, et al. The greater in vivo antiplatelet effects of prasugrel as compared to clopidogrel reflect more efficient generation of its active metabolite with similar antiplatelet activity to that of clopidogrel's active metabolite. J Thromb Haemost. 2007 Jul;5(7):1545-51. Epub 2007 Apr 19.

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

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