

Product Data Sheet

Product Name: Prasugrel hydrochloride

Cat. No.: GC14067

Chemical Properties

Cas. No. 389574-19-0

Chemical Name [5-[2-cyclopropyl-1-(2-fluorophenyl)-2-oxoethyl]-6,7-dihydro-4H-thieno[3,2-c]pyridin-2-yl] acetate;hydrochloride

SMILES CC(=O)OC1=CC2=C(S1)CCN(C2)C(C3=CC=CC=C3F)C(=O)C4CC4.Cl

Formula $C_{20}H_{21}ClFNO_3S$

M.Wt 409.9

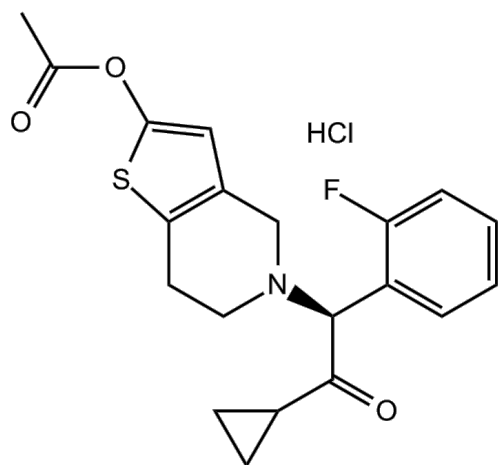
Solubility $\geq 18.9\text{mg/mL}$ in DMSO with gentle warming

Storage -20°C , protect from light

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

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

Structure



Background

Prasugrel hydrochloride (PCR 4099 hydrochloride) is a platelet inhibitor with IC_{50} value of $1.8\text{ }\mu\text{M}$.

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

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

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with PCI[2]. Prasugrel (PCR 4099) reduces the aggregation ("clumping") of platelets by irreversibly binding to P2Y₁₂ receptors. In rat platelets, prasugrel hydrochloride AM inhibited in vitro platelet aggregation induced by ADP (10 μ M) with an IC₅₀ value of 1.8 Mm[2].

References:

- [1]. 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.
- [2]. Baker WL, et al. Role of prasugrel, a novel P2Y₁₂ receptor antagonist, in the management of acute coronary syndromes. Am J Cardiovasc Drugs. 2009;9(4):213-29.

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