Product Name: AR-C 141990 hydrochloride
Catalog No.: 5658
Batch No.: 1
IUPAC Name: 5-[[3R]-3-Hydroxy-1-pyrrolidinyl[carbonyl]-3-methyl-1-(2-methylpropyl)-6-(4-quinolinylmethyl)thieno[2,3-d]
pyrimidine-2,4(1H,3H)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{26}H_{28}N_{4}O_{4}S.HCl.H_{2}O
Batch Molecular Weight: 547.07
Physical Appearance: Pale yellow solid
Solubility:
- water to 100 mM
- DMSO to 100 mM
- ethanol to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: R_f = 0.26 (Ethyl acetate:Methanol [92:8])
HPLC: Shows >99.4% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
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<tr>
<th></th>
<th>Carbon</th>
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<th>Nitrogen</th>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: AR-C 141990 hydrochloride

IUPAC Name: 5-[[3R]-3-Hydroxy-1-pyrrolidinyl][carbonyl]-3-methyl-1-(2-methylpropyl)-6-(4-quinolinylmethyl)thieno[2,3-d]pyrimidine-2,4(1H,3H)-dione

Description:
Monocarboxylate transporter (MCT1) inhibitor (pKᵢ = 7.6). Exhibits approximately 10-fold selectivity for MCT1 over MCT2 and no significant activity against MCT3 or 4. Inhibits graft versus host response and prolongs cardiac graft survival in a rat model. Immunosuppressant. Also inhibits brain penetration of GHB analog HOCPCA.

Physical and Chemical Properties:
Batch Molecular Formula: C₃₀H₂₈N₄O₆S.HCl.H₂O
Batch Molecular Weight: 547.07
Physical Appearance: Pale yellow solid
Minimum Purity: >98%
Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:
- water to 100 mM
- DMSO to 100 mM
- ethanol to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: