

Certificate of Analysis

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Product Name: TCS 2510

Catalog No.: 4069

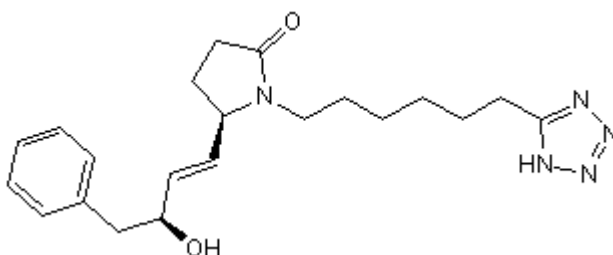
Batch No.: 3

CAS Number: 346673-06-1

IUPAC Name: (5*R*)-5-[(3*S*)-3-Hydroxy-4-phenyl-1-buten-1-yl]-1-[6-(2*H*-tetrazol-5-yl)hexyl]-2-pyrrolidinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₁ H ₂₉ N ₅ O ₂
Batch Molecular Weight:	383.49
Physical Appearance:	Colourless liquid
Solubility:	Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 100% purity
Mass Spectrum:	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Highly selective EP₄ agonist (EC₅₀ = 2.5 nM; K_i = 1.2 nM). Displays no significant binding at other prostaglandin receptors at concentrations up to 14 μM.

Physical and Chemical Properties:

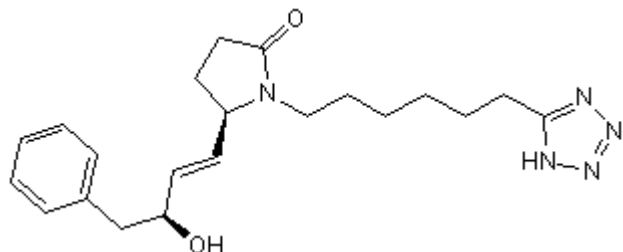
Batch Molecular Formula: C₂₁H₂₉N₅O₂

Batch Molecular Weight: 383.49

Physical Appearance: Colourless liquid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)

This compound is supplied pre-dissolved in ethanol (5mg/ml). To change the solvent, evaporate the ethanol under a gentle stream of nitrogen and immediately add the chosen solvent (preferably purged with nitrogen beforehand). The solubility of TCS 2510 is greater than 25mM in DMSO. This stock solution can be further diluted in aqueous buffers. We do not recommend storing aqueous solutions for more than a day.

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:

Billot *et al* (2003) Discovery of a potent and selective agonist of the prostaglandin EP₄ receptor. *Bioorg.Med.Chem.Lett.* **130** 1129.

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