

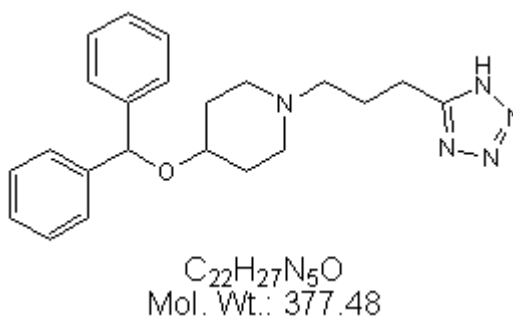
Certificate of Analysis

Product Name: HQL 79
CAS Number: 162641-16-9
IUPAC Name: 4-(Diphenylmethoxy)-1-(3-2*H*-tetrazol-5-yl)propyl]-piperidine

Catalog No.: 3530 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₇N₅O
Batch Molecular Weight: 377.48
Physical Appearance: White solid
Solubility: DMSO to 25 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.27 (Dichloromethane:Methanol [4:1])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70	7.21	18.54
Found	69.85	7.03	18.71

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

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Description:

Orally active and specific inhibitor of human hematopoietic prostaglandin D synthase (H-PGDS) (IC₅₀ = 6 μM). Antiallergic and anti-inflammatory; displays antiasthmatic activity and potent antihistaminic properties in vivo.

Physical and Chemical Properties:

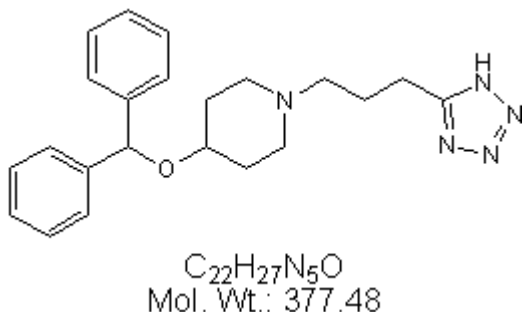
Batch Molecular Formula: C₂₂H₂₇N₅O

Batch Molecular Weight: 377.48

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 25 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:

Matsushita et al (1998) Pharmacological studies on the novel antiallergic drug HQL-79: II. Elucidation of mechanisms for antiallergic and antihistaminic effects. *Jpn.J.Pharmacol.* **78** 11. PMID: 9804057.

Mohri et al (2006) Prostaglandin D₂-mediated microglia/astrocyte interaction enhances astrogliosis and demyelination in *twitcher*. *J.Neurosci.* **26** 4383. PMID: 16624958.

Aritake et al (2006) Structural and functional characterization of HQL-79, an orally selective inhibitor of human hematopoietic prostaglandin D synthase. *J.Biol.Chem.* **281** 15277. PMID: 16547010.

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