

Certificate of Analysis

Product Name: TC-E 5007

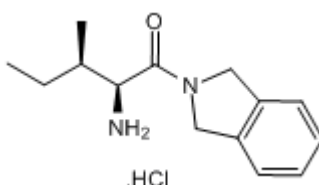
Catalog No.: 5204

Batch No.: 2

IUPAC Name: (2*S*,3*R*)-2-Amino-1-(1,3-dihydro-2*H*-isoindol-2-yl)-3-methyl-1-pentanone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₄ H ₂₀ N ₂ O.HCl.¼H ₂ O
Batch Molecular Weight:	273.28
Physical Appearance:	Off White solid
Solubility:	water to 100 mM DMSO to 100 mM
Storage:	Desiccate at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 100% purity
Chiral HPLC:	Shows 100% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon	Hydrogen	Nitrogen
Theoretical	61.53	7.93	10.25
Found	61.15	8.05	10.06

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

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Description:

Irreversible and selective dipeptidyl peptidase 8 and 9 (DPP-8/9) inhibitor (IC₅₀ values are 145 and 242 nM respectively). Exhibits selectivity for DPP-8/9 over DPP-IV, DPP-2 and FAP.

Physical and Chemical Properties:

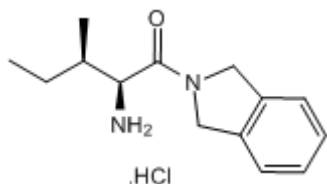
Batch Molecular Formula: C₁₄H₂₀N₂O.HCl.¼H₂O

Batch Molecular Weight: 273.28

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

water to 100 mM

DMSO to 100 mM

CAUTION - This product is extremely hygroscopic and we recommend that it is desiccated upon arrival. It has been packed under inert atmosphere, and should be kept under inert atmosphere during and after weighing.

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:

Lankas et al (2005) Dipeptidyl peptidase IV inhibition for the treatment of type 2 diabetes: potential importance of selectivity over dipeptidyl peptidases 8 and 9. *Diabetes* **54** 2988. PMID: 16186403.

Van der Veken et al (2007) Irreversible inhibition of dipeptidyl peptidase 8 by dipeptide-derived diaryl phosphonates. *J.Med.Chem.* **50** 5568. PMID: 17958345.

Wu et al (2009) Biochemistry, pharmacokinetics, and toxicology of a potent and selective DPP8/9 inhibitor. *Biochem.Pharmacol.* **78** 203. PMID: 19439267.

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