TOCRIS
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Print Date: Jan 13th 2016

Certificate of Analysis

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Product Name: **Moexipril hydrochloride** **Catalog No.: 2691** **Batch No.: 2**

CAS Number: 82586-52-5

IUPAC Name: 2-[(2*S*)-2-[[(1*S*)-1-(Ethoxycarbonyl)-3-phenylpropyl]amino]-1-oxopropyl]-1,2,3,4-tetrahydro-6,7-dimethoxy-3-isoquinolinecarboxylic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{27}H_{34}N_2O_7.HCl$

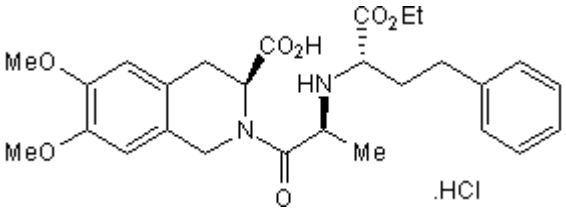
Batch Molecular Weight: 535.03

Physical Appearance: Beige solid

Solubility: water to 100 mM
DMSO to 100 mM
ethanol to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D$ = +36 (Concentration = 1.1, Solvent = Ethanol)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.11	6.63	5.19
Found	60.01	6.54	5.19

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Description:

Angiotensin-converting enzyme (ACE) inhibitor that is hydrolyzed in the liver to the active metabolite moexiprilat (IC_{50} values are 2.1 and 2700 nM for moexiprilat and moexipril respectively). Antihypertensive; decreases mean blood pressure in the spontaneous hypertensive rat (SHR). Also blocks degradation of bradykinin into inactive metabolites.

Physical and Chemical Properties:

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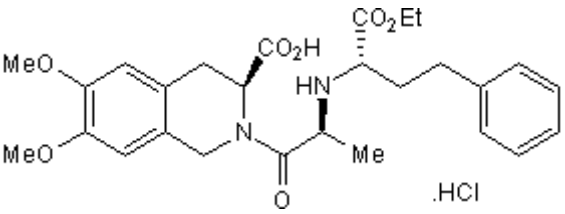
Batch Molecular Weight: 535.03

Physical Appearance: Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°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:

Edling *et al* (1995) Moexipril, a new angiotensin-converting enzyme (ACE) inhibitor: pharmacological characterization and comparison with enalapril. J.Pharmacol.Exp.Ther. ***275*** 854. PMID: 7473177.

Friehe and Ney (1997) Pharmacological and toxicological studies of the new angiotensin converting enzyme inhibitor moexipril hydrochloride. Arzneim.-Forsch. ***47*** 132.

Chrysant and Chrysant (2004) Pharmacological and clinical profile of moexipril: a concise review. J.Clin.Pharmacol. ***44*** 827. PMID: 15286086.