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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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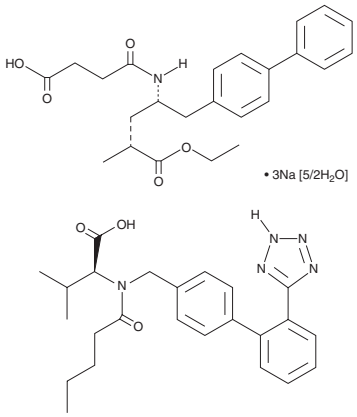
PRODUCT INFORMATION

LCZ696

Item No. 23425



CAS Registry No.:	936623-90-4
Formal Name:	N-(1-oxopentyl)-N-[[2'-(2H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-L-valine compd. with α-ethyl (αR,γS)-γ-[(3-carboxy-1-oxopropyl)amino]-α-methyl[1,1'-biphenyl]-4-pentanoate, sodium salt, hydrate (2:2:6:5)
MF:	$C_{24}H_{29}N_5O_3 \bullet C_{24}H_{29}NO_5 \bullet 5/2H_2O \bullet 3Na$
FW:	961.0
Purity:	≥98% (1:1 ratio of Valsartan and AHU377)
UV/Vis.:	λ_{max}: 251 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

LCZ696 is supplied as a crystalline solid. A stock solution may be made by dissolving the LCZ696 in the solvent of choice, which should be purged with an inert gas. LCZ696 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of LCZ696 in ethanol and DMF is approximately 30 mg/ml and approximately 20 mg/ml in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of LCZ696 can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of LCZ696 in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

LCZ696 is a dual angiotensin II receptor antagonist and neprilysin inhibitor that is a combination of the nonpeptide angiotensin II receptor antagonist valsartan (Item No. 14178) and AHU377 (Item No. 21473), a prodrug of LBQ657 (Item No. 19829), which is an inhibitor of the zinc metallopeptidase neprilysin.[1-3] LCZ696 (2-60 mg/kg) induces a dose-dependent decrease in mean arterial pressure in rats expressing human renin and angiotensinogen, a double-transgenic model for angiotensin II-dependent hypertension.[3] Formulations containing LCZ696 have been used in the treatment of chronic heart failure.

References

1. Burnier, M. Angiotensin II type 1 receptor blockers. *Circulation* **103(6)**, 904-912 (2001).
2. Schiering, N., D'Arcy, A., Villard, F., *et al*. Structure of neprilysin in complex with the active metabolite of sacubitril. *Sci. Rep.* **6**, 27909 (2016).
3. Gu, J., Noe, A., Chandra, P., *et al*. Pharmacokinetics and pharmacodynamics of LCZ696, a novel dual-acting angiotensin receptor-neprilysin inhibitor (ARNi). *J. Clin. Pharmacol.* **50(4)**, 401-414 (2010).

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