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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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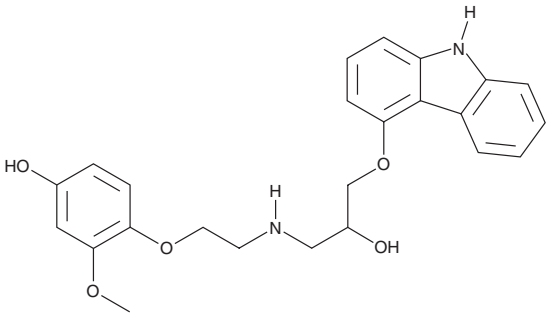
PRODUCT INFORMATION

4'-hydroxyphenyl Carvedilol

Item No. 27172

CAS Registry No.: 142227-49-4
Formal Name: 4-[2-[[3-(9H-carbazol-4-yloxy)-2-hydroxypropyl]amino]ethoxy]-3-methoxy-phenol
Synonym: BM 140686
MF: $C_{24}H_{26}N_2O_5$
FW: 422.5
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

4'-hydroxyphenyl Carvedilol is supplied as a solid. A stock solution may be made by dissolving the 4'-hydroxyphenyl carvedilol in the solvent of choice, which should be purged with an inert gas. 4'-hydroxyphenyl Carvedilol is slightly soluble in acetonitrile and methanol.

Description

4'-hydroxyphenyl Carvedilol is a metabolite of carvedilol (Item No. 15418) that is a more potent β-adrenergic receptor antagonist than carvedilol but has weaker vasodilatory activity.[1] It is formed through oxidation primarily by the cytochrome P450 (CYP) isoform CYP2D6.[2] 4'-hydroxyphenyl Carvedilol inhibits the formation of DPPH radicals in a cell-free assay.[3]

References

1. Patel, D.P., Sharma, P., Sanyal, M., *et al.* UPLC-MS/MS assay for the simultaneous quantification of carvedilol and its active metabolite 4'-hydroxyphenyl carvedilol in human plasma to support a bioequivalence study in healthy volunteers. *Biomed. Chromatogr.* **27(8)**, 974-986 (2013).
2. Oldham, H.G. and Clarke, S.E. *In vitro* identification of the human cytochrome P450 enzymes involved in the metabolism of R(+)- and S(-)-carvedilol. *Drug Metab. Dispos.* **25(8)**, 970-977 (1997).
3. Malig, T.C., Ashkin, M.R., Burman, A.L., *et al.* Comparison of free-radical inhibiting antioxidant properties of carvedilol and its phenolic metabolites. *Medchemcomm.* **8(3)**, 606-615 (2017).

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