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Produktinformation



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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Dabigatran etexilate-d₁₃

Item No. 18451

Formal Name: ethyl 3-(2-(((4-(N-(((hexyl-d₁₃)oxy)carbonyl) carbamimidoyl)phenyl)amino)methyl)-1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-5-carboxamido)propanoate

MF: C₃₄H₂₈D₁₃N₇O₅

FW: 640.8

Chemical Purity: ≥98% (Dabigatran etexilate)

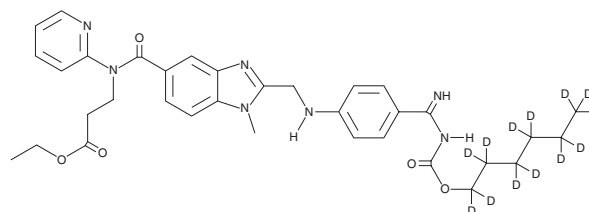
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₁₃); ≤1% d₀

UV/Vis.: λ_{max}: 223, 322 nm

Supplied as: A crystalline 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

Dabigatran etexilate-d₁₃ is intended for use as an internal standard for the quantification of dabigatran etexilate (Item No. 17131) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Dabigatran etexilate-d₁₃ is supplied as a crystalline solid. A stock solution may be made by dissolving the dabigatran etexilate-d₁₃ in the solvent of choice. Dabigatran etexilate-d₁₃ is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 0.5 mg/ml at 25°C.

Description

Dabigatran etexilate is a double prodrug that undergoes *in vivo* hydrolytic cleavage to produce dabigatran (Item No. 17133), a potent thrombin inhibitor (K_i = 4.5 nM).^{1,2} Dabigatran etexilate shows antithrombotic efficacy in animal models of thrombosis, with a rapid onset of action.² It is not metabolized by cytochrome P450 isozymes and has a low potential for drug-drug interactions.

References

1. Huel, N.H., Nar, H., Priepke, H., *et al.* Structure-based design of novel potent nonpeptide thrombin inhibitors. *J. Med. Chem.* **45**(9), 1757-1766 (2002).
2. Eisert, W.G., Huel, N., Stangier, J., *et al.* Dabigatran: An oral novel potent reversible nonpeptide inhibitor of thrombin. *Arterioscler. Thromb. Vasc. Biol.* **30**(10), 1885-1889 (2010).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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