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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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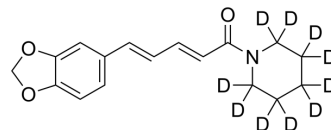
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Piperin-d₁₀

Cat. No.:	HY-W654320
Molecular Formula:	C ₁₇ H ₉ D ₁₀ NO ₃
Molecular Weight:	295.4
Target:	Isotope-Labeled Compounds; Endogenous Metabolite; P-glycoprotein; Autophagy
Pathway:	Others; Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Piperin-d₁₀ is deuterium labeled Piperine. Piperine is an alkaloid, can be isolated from pepper. Piperine can inhibit the activity of P-glycoprotein and CYP3A4. Piperine inhibits HeLa cells with an IC₅₀ of 61.94±0.054 µg/mL^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Paarakh PM, et al. In vitro cytotoxic and in silico activity of piperine isolated from *Piper nigrum* fruits Linn. *In Silico Pharmacol*. 2015 Dec;3(1):9. Epub 2015 Oct 29.
- [3]. Meghwal M, et al. *Piper nigrum* and piperine: an update. *Phytother Res*. 2013 Aug;27(8):1121-30.
- [4]. Li C, et al. Non-linear pharmacokinetics of piperine and its herb-drug interactions with docetaxel in Sprague-Dawley rats. *J Pharm Biomed Anal*. 2016 Sep 5;128:286-93.
- [5]. Zhai WJ, et al. Piperine Plays an Anti-Inflammatory Role in *Staphylococcus aureus* Endometritis by Inhibiting Activation of NF-κB and MAPK Pathways in Mice. *Evid Based Complement Alternat Med*. 2016;2016:8597208.

Caution: Product has not been fully validated for medical applications. For research use only.

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