



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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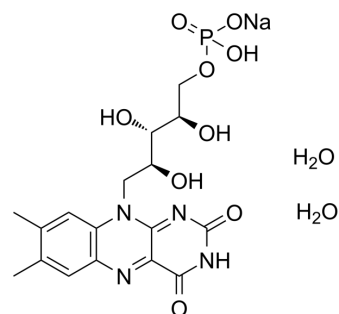
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## Riboflavine phosphate sodium hydrate

<b>Cat. No.:</b>	HY-W013713
<b>CAS No.:</b>	6184-17-4
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>24</sub> N <sub>4</sub> NaO <sub>11</sub> P
<b>Molecular Weight:</b>	514
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Riboflavine phosphate sodium hydrate (Riboflavine 5'-phosphate sodium hydrate) is a derivative of Riboflavin (vitamin B2) which is an essential nutrient for animals. Riboflavine phosphate sodium hydrate can be used for the research of progressive keratoconus, corneal ectasia and irregular astigmatism <sup>[1][2]</sup> . Riboflavine phosphate sodium hydrate is a very effective NAD <sup>+</sup> -recycling agent <sup>[3]</sup> .
<b>In Vitro</b>	Riboflavine phosphate sodium hydrate is clearly a very effective NAD <sup>+</sup> -recycling agent with good yields of the cyclohexanone product accompanied by high levels of NAP turnover being achieved routinely <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. José Luis Revuelta, et al. Bioproduction of riboflavin: a bright yellow history. *J Ind Microbiol Biotechnol*. 2017 May;44(4-5):659-665.
- [2]. Carmine Ostacolo, et al. Enhancement of corneal permeation of riboflavin-5'-phosphate through vitamin E TPGS: a promising approach in corneal trans-epithelial cross linking treatment. *Int J Pharm*. 2013 Jan 20;440(2):148-53.
- [3]. J.Bryan Jones, et al. Nicotinamide coenzyme regeneration. Flavin mononucleotide (riboflavin phosphate) as an efficient, economical, and enzyme-compatible recycling agent. *Can J Chem*. 1976, 54(19): 2969-2973,

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

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