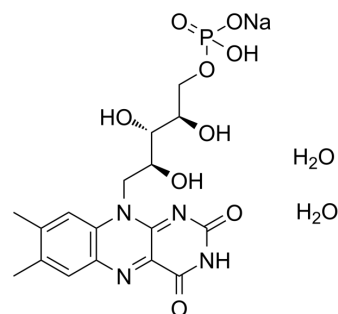


Riboflavin phosphate sodium hydrate

Cat. No.:	HY-W013713
CAS No.:	6184-17-4
Molecular Formula:	C ₁₇ H ₂₄ N ₄ NaO ₁₁ P
Molecular Weight:	514.36
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	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 ^{[1][2]} . Riboflavine phosphate sodium hydrate is a very effective NAD ⁺ -recycling agent ^[3] .
In Vitro	Riboflavine phosphate sodium hydrate is clearly a very effective NAD ⁺ -recycling agent with good yields of the cyclohexanone product accompanied by high levels of NAP turnover being achieved routinely ^[3] . 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA