Product Data Sheet

Riboflavin phosphate

Cat. No.: HY-B0964A

CAS No.: 146-17-8

Molecular Weight: 456.34

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 is a derivative of Riboflavin (vitamin B2) which is an essential nutrient for animals. Riboflavin phosphate can be used for the research of progressive keratoconus, corneal ectasia and irregular astigmatism ^{[1][2]} . Riboflavine phosphate is a very effective NAD ⁺ -recycling agent ^[3] .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	Riboflavine phosphate (Flavin mononucleotide) 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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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,

[2]. José Luis Revuelta, et al. Bioproduction of riboflavin: a bright yellow history. J Ind Microbiol Biotechnol. 2017 May;44(4-5):659-665.

[3]. 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.

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

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