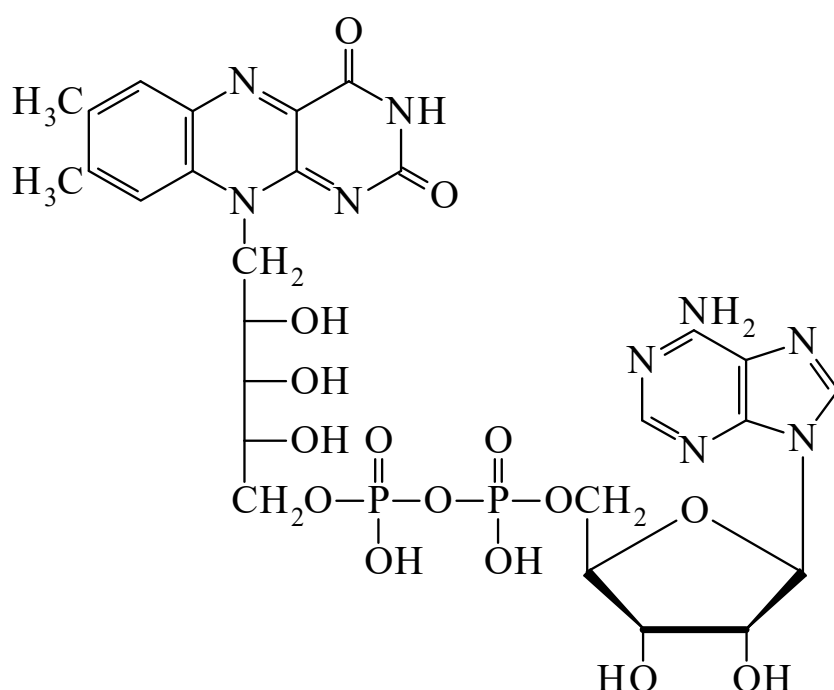




>>Entry Name: Flavine adenine dinucleotide

ENTRY UNDER REVIEW

Synonym(s): Riboflavin 5'-(trihydrogen diphosphate) 5' → 5'-diester with adenosine, 9Cl. Flavinat. Flavitan. Isoalloxazine adenine dinucleotide. FAD. Fademin. Flamitajin. Flanin F



CAS Registry Number: 146-14-5

Related CAS Registry Numbers(s): 1910-41-4 84366-81-4

Molecular Formula: C₂₇H₃₃N₉O₁₅P₂

Molecular Weight: 785.556

Accurate Mass: 785.15714

Percentage Composition: C 41.28%; H 4.23%; N 16.05%; O 30.55%; P 7.89%

Biological Source: Isol. from various natural sources incl. the liver, heart, kidney, muscles and yeasts

Use/Importance: Vitamin B₂ therapeutic agent. Prosthetic group of various flavoproteins incl. D-amino acid oxidase, fumaric hydrogenase, histaminase glucose oxidase and xanthine oxidase

Physical Description: Yellow microcryst. (H₂O)

Other Data: Light-sensitive

Fluka: 46360

Sigma: F6625

References:

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Kainosho, M. *et al.*, *Biochemistry*, 1972, **11**, 741, (*pmr*, *P-31 nmr*)
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Ulrich, E.L. *et al.*, *Tet. Lett.*, 1983, **24**, 473, (*pmr*)
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