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ABSTRACT OF THE DISCLOSURE

Flavine nucleotides, which are useful as ingredients of nutrient compositions, raw materials for various pharmaceutical products, biochemical research reagents and so on, are produced from flavine nucleotide precursors and ATP by utilizing cells or a culture of a microorganism which belongs to the genus Escherichia, Enterobactor or Pseudomonas and harbors a recombinant DNA comprising a vector DNA and a DNA fragment carrying the genetic information relevant to the synthesis of FMN and/or FAD, or treated cells or a treated culture of the microorganism.