

Native Brewer's bottom yeast Orotidine-5'-monophosphate pyrophosphorylase

Cat. No. NATE-0498 Lot. No. (See product label)

Introduction

Description	Orotate phosphoribosyltransferase (OPRTase) or Orotic acid phosphoribosyltransferase is an enzyme
	involved in pyrimidine biosynthesis. It catalyzes the formation of orotidine 5'-monophosphate (OMP) from
	orotate and phosphoribosyl pyrophosphate. In yeast and bacteria, orotate phosphoribosyltransferase is
	an independent enzyme with a unique gene coding for the protein, whereas in mammals and other
	multicellular organisms, the catalytic function is carried out by a domain of the bifunctional enzyme UMP
	synthase.

- **Applications** This is the preferred enzyme for assaying orotidine 5'-monophosphate and for the production of OMP analogs from the corresponding orotic acid.
- **Synonyms** orotidylic acid phosphorylase; orotidine-5'-phosphate pyrophosphorylase; OPRTase; orotate phosphoribosyl pyrophosphate transferase; orotic acid phosphoribosyltransferase; orotidine 5'-monophosphate pyrophosphorylase; orotidine monophosphate pyrophosphorylase; orotidine phosphoribosyltransferase; orotidylate phosphoribosyltransferase; orotidylate pyrophosphorylase; orotidylic acid pyrophosphorylase; orotidylic phosphorylase; orotidylic pyrophosphorylase; EC 2.4.2.10; 9030-25-5

Product Information

Source	Brewer's bottom yeast
Form	Lyophilized powder containing approx. 50% buffer salts
EC Number	EC 2.4.2.10
CAS No.	9030-25-5
Activity	~25 units/mg protein (modified Warburg-Christian)
Unit Definition	One unit will convert 1.0 μ mole of orotidine 5'-monophosphate to orotic acid in one hr at pH 8.0 at 30°C.

Storage and Shipping Information

Storage –20°C