

## Purine-nucleoside phosphorylase, Enzyme Activity

Catalog	Unit
TBP0038-1MG	1 mg
TBP0038-5MG	5 mg

### Preparation and Specification

Appearance: White amorphous powder, lyophilized

Activity: Gradelll 15U/mg-solid or more

Contaminants: Catalase  $\leq 20\%$

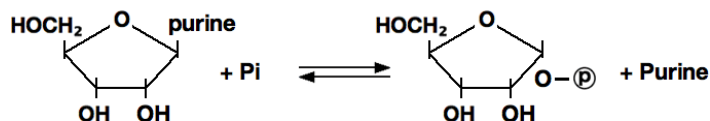
5'-Nucleosidase  $\leq 1.0 \times 10^{-3}\%$

Adenosine deaminase  $\leq 1.0 \times 10^{-3}\%$

ATPase  $\leq 1.0 \times 10^{-2}\%$

Stabilizers: K-Gluconate, mannitol, EDTA

### Purine-nucleoside: orthophosphate ribosyltransferase (EC 2.4.2.1) <sup>1,2)</sup>



### Properties

Stability: Stable at  $-20^{\circ}\text{C}$  for at least One year

Molecular weight: approx. 120,000

Isoelectric point:  $4.1 \pm 0.1$

Michaelis constants:  $6.4 \times 10^{-5}\text{M}$  (Inosine),  $3.2 \times 10^{-4}\text{M}$  (Pi)

Inhibitors: p-Chloromercuribenzoate, SDS,  $\text{Hg}^{++}$ ,  $\text{Ag}^{+}$

Optimum pH: 7.5-8.0

Optimum temperature:  $65^{\circ}\text{C}$

pH Stability: pH 6.0-9.0 ( $30^{\circ}\text{C}$ , 16hr)

Thermal stability: below  $60^{\circ}\text{C}$  (pH 7.7, 30min)

### Applications

This enzyme is useful for enzymatic determination of inorganic phosphorus, 5'-nucleotidase and adenosine deaminase when coupled with xanthine oxidase (XTO-212) and uricase (UAO-201, UAO- 211)

For research use only