

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 $\leq 20\%$

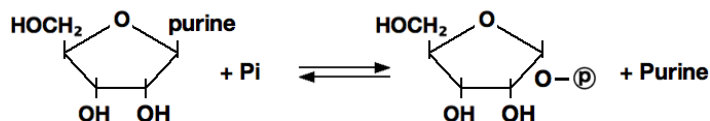
5'-Nucleosidase $\leq 1.0 \times 10^{-3}\%$

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) ^{1,2)}



Properties

Stability: Stable at -20°C for at least One year

Molecular weight: approx. 120,000

Isoelectric point: 4.1 ± 0.1

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

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

Optimum pH: 7.5-8.0

Optimum temperature: 65°C

pH Stability: pH 6.0-9.0 (30°C , 16hr)

Thermal stability: below 60°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 and uricase.

For research use only