Purine Nucleoside Phosphorylase

Cat: P6480
Storage: Store at -20℃.

Reaction formula:

$$\text{Purine nucleoside} + \text{Phosphate} \xrightarrow{\text{PNP}} \text{Purine} + \text{alpha - D - ribose 1 - phosphate}$$

Product Information
CAS： 9030-21-1
Appearance (Character)： White freeze-dried powder
Source: Microorganisms
EC Number: EC 5.4.2.2
Enzyme Activity/Potency:: ≥200U/mg protein
Enzyme Activity Definition: Under the conditions of pH7.7 and temperature of 37℃, 1 unit can oxidize 1μmol of inosine phosphate to generate hypoxanthine and 1-ribose phosphate per minute.
Preparation instructions: This enzyme is soluble in 50 mM potassium phosphate buffer pH 7.7.
Molecular Weight: 32 kDa (SDS-PAGE)
Isoelectric point: 6.0
Michaelis constant: 2.2×10-4 M (Inosine)
Optimal pH: 7.5-8.0
Optimal temperature: 60℃
pH stability: 5.0-10.0
Temperature stability: < 55℃ (pH7.7, 30min)
Inhibitor: Ag^{+}, Hg^{2+}