

Purine Nucleoside Phosphorylase Activity Assay kit

Purine nucleoside phosphorylase (PNP, EC 2.4.2.1), as a cytoplasmic enzyme involved in the metabolism of purine reuse pathway, plays an important role in a variety of cellular functions and immune systems, including cell growth, apoptosis and cancer. Based on its T-cell targeting properties, PNP is a potential target for the treatment of some malignant T cell proliferative cancers (including lymphoma and leukemia) and some specific immune diseases. Although PNP is primarily a cytoplasmic enzyme, PNP enzymes are also present outside the cell, such as in plasma and cerebrospinal fluid. Although PNP is widely expressed in tissues, the expression of PNP is particularly high in bladder, kidney, gastrointestinal tract, spleen, bone marrow, brain, endocrine tissue, reproductive organs, red blood cells, lymphocytes and granulocytes. Inosine is hydrolyzed by purine nucleoside phosphorylase (PNP) to produce hypoxanthine and ribose phosphate. Hypoxanthine produces hydrogen peroxide under the action of xanthine oxidase (XOD). Hydrogen peroxide produces purplish red substance under the action of peroxidase (POD), 4-aminotibilin and color source. It has the maximum absorption at 550 nm. The purplish red substance is detected by detecting the purplish red substance.

Catalog No.	250635
Size	50 Assays / 100 Assays
Product Category	Colorimetric Assay
Storage/Stability	2-8°C/6 months
Shipping	Gel Packs