

## Cytosolic 5'-nucleotidase II from Huamn, Recombinant

Cat. No. NATE-1742

Lot. No. (See product label)

### Introduction

**Description** E.coli

**Applications** Human cytosolic IMP/GMP specific 5'-nucleotidase/phosphotransferase II (cN-II) is a pure and active protein of 65kDa cloned by RT-PCR amplification of mRNA extracted from human hepatoma cells and expressed in E.coli. The sequence of the cloned NT5C2 gene (GenBank accession number P49902) was confirmed by DNA sequencing (100% identity).

**Synonyms** uridine 5'-nucleotidase; 5'-adenylic phosphatase; adenosine 5'-phosphatase; AMP phosphatase; adenosine monophosphatase; 5'-mononucleotidase; AMPase; UMPase; snake venom 5'-nucleotidase; thimidine monophosphate nucleotidase; 5'-AMPase; 5'-AMP nucleotidase; AMP phosphohydrolase; IMP 5'-nucleotidase; EC 3.1.3.5; CD73; NT5E; ecto-5'-nucleotidase

### Product Information

**Species** cN-II

**Source** Human

**EC Number** EC 3.1.3.5

**CAS No.** 9027-73-0

**Molecular Weight** 65kDa

**Activity**  $\geq 0.150$  unit/mg protein

**Unit Definition** One unit of 5'-nucleotidase converts 1.0  $\mu$ mole of IMP to inosine per minute at pH 7.6 at 37°C, as measured by a coupled PNP/XDH enzyme system in the presence of 20mM MgCl<sub>2</sub>, 5mM DTT, 500 $\mu$ M KH<sub>2</sub>PO<sub>4</sub>, and 1.25mM IMP.

### Usage and Packaging

**Package** stable lyophilized form

### Storage and Shipping Information

**Storage** -20 °C in a solution containing 50 mM Tris-HCl, pH 7.6, 2 mM  $\beta$ -mercaptoethanol, 50% glycerol.