Creative Enzymes®

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 ≥ 0.150 unit/mg protein

Unit Definition One unit of 5’nucleotidase converts 1.0 µmole 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 $MgCl_2$, 5mM DTT, 500µM KH_2PO_4, 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 β-mercaptoethanol, 50% glycerol.