Creative Enzymes®

5'-Nucleotidase from Human, Recombinant

Cat. No. NATE-0795

Lot. No. (See product label)

Introduction

Description	5'-nucleotidase is an extracellular enzyme that converts nucleoside-5'−monophosphates to nucleosides with a substrate preference of AMP. Native 5'-nucleotidase is a GPI-anchored protein whose exporession is upregulated by hypoxia. 5'-nucleotidase has many functions in vivo including the generation of extracellular adenosine. 5'-Nucleotidase has various clinical significances. It is a key molecule in the regulation of cancer cells proliferation, migration and invasion in vitro tumor angiogenesis, and tumor immune escape in vivo. Due to this important role, the enzyme is a potential target for cancer research.1 It is also involved in salvage of extracellular nucleotides and plays a key role in the control of tissue homeostasis.
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	Human
Source	CHO cells
Form	Supplied as a solution containing Tris, NaCl, CaCl2, and 20% glycerol.
EC Number	EC 3.1.3.5
CAS No.	9027-73-0
Molecular Weight	~61 kDa by SDS-PAGE (reducing)
Purity	>90% (SDS-PAGE)
Activity	>15 U/mg
Unit Definition	One unit will hydrolyze 1.0 µmole of inorganic phosphorus from adenosine 5'-monophosphate per min at pH 9.0 at 37 °C.

Usage and Packaging

Package	vial of 6-12 µg

Storage and Shipping Information

Storage	Store at -70°C