

Inosine Monophosphate Dehydrogenase Type II from Human, Recombinant

Cat. No. NATE-0352

Lot. No. (See product label)

Introduction

Description

Type II is the predominant IMPDH isoform and is specifically linked to a wide range of cancers and lymphocyte proliferation.

Synonyms

inosine-5'-phosphate dehydrogenase; inosinic acid dehydrogenase; inosinate dehydrogenase; inosine 5'-monophosphate dehydrogenase; inosine monophosphate dehydrogenase; IMP oxidoreductase; inosine monophosphate oxidoreductase; IMP dehydrogenase; IMP:NAD⁺ oxidoreductase; EC 1.1.1.205; IMPDH II; IMPDH2; IMPD 2

Product Information

Species

Human

Source

E. coli

Form

Solution in 20 mM Tris-HCl, pH 8.0, containing 0.5 mM EDTA and 1 mM DTT.

EC Number

EC 1.1.1.205

CAS No.

231-791-2

Pathway

Drug metabolism-other enzymes, organism-specific biosystem; Drug metabolism-other enzymes, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem

Function

DNA binding; IMP dehydrogenase activity; RNA binding; metal ion binding; nucleotide binding; oxidoreductase activity

Unit Definition

One unit will produce 1.0 μ mole of XMP from IMP with corresponding reduction of β -NAD per minute at pH 8.0 at 25°C.

Usage and Packaging

Package

vial of > 0.002 unit

Storage and Shipping Information

Storage

-70°C