Human Inosine-5'-Monophosphate Dehydrogenase II, human recombinant

CATALOG NO:	P1131-20 P1131-100	20 µg 100 µg
ALTERNATE NAMES:	IMP dehydrogenase type II, IMPDH II, IMPD2, IMPDH	
SOURCE:	E.coli	
PURITY:	> 90% by SDS-PAGE	
MOL. WEIGHT:	This protein is fused with a HAT tag at the N-terminus and the protein has a calculated MW of 57 kDa.	
FORM:	Liquid	
FORMULATION:	20 mM Tris, pH 8 20% glycerol	3.0, 150 mM NaCl, 2 mM DTT, 2 mM EDTA and
STORAGE CONDITIONS:	Store at -20°C in working aliquots and use within 6 months. Avoid repeated freeze-thaw cycles.	
DESCRIPTION:	is the rate-limit biosynthesis and oxidizes inosine monophosphate role in cell growth is the predominan wide range of ca	sphate dehydrogenase, IMPDH, (E.C. 1.1.1.205) ing enzyme in de novo guanine nucleotide it is essential for lymphocyte proliferation. IMPDH e 5'-monophosphate (IMP) to xanthine 5'- (XMP) using NAD as a cofactor. It plays a critical and in the malignancy of some tumors. IMPDH II it isoform of IMPDH and is specifically linked to a ancers and lymphocyte proliferation. BioVision's IPDH II is suitable for functional assays, high-

SPECIFIC ACTIVITY: \geq 0.04 U/mg. One unit of enzyme converts 1 µmole of IMP into XMP at 37°C and pH 8.

throughput screening and preclinical studies in drug discovery.

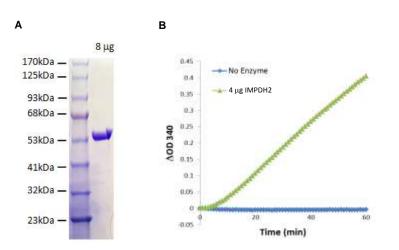


Fig A. SDS-PAGE (4-20%) of Recombinant IMPDH II: Recombinant Protein loaded under reducing conditions and stained with Coomassie Blue. The protein shows a predicted MW of ~ 57 kDa

Fig B. Activity plot of IMPDH II converting IMP to XMP. Specific activity of IMPDH II is ≥ 0.04 U/mg. IMPDH II reacts with 1 mM of IMP at pH 8 and 37°C. NADH production rate was detected at 340 nm.

RELATED PRODUCTS:

- HPRT1, human recombinant (Cat. No. P1092-10, -50)
- 2'-Deoxy-6-thioguanosine (Cat. No. 2828-25)

FOR RESEARCH USE ONLY! Not to be used on humans.

