

Inosine-5'-monophosphate dehydrogenase 2 Recombinant Protein | IMPD2 recombinant protein

Recombinant Human Inosine-5'-monophosphate dehydrogenase 2

CATALOG # AAA81593	HOST E Coli
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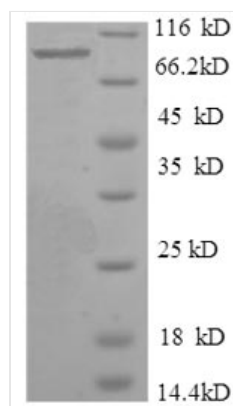
PRODUCT SYNONYMS

Inosine-5'-monophosphate dehydrogenase 2; Recombinant Human Inosine-5'-monophosphate dehydrogenase 2; IMPDH-II; IMPD2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Liquid containing glycerol
Sequence Positions	5-514aa; Partial
Sequence	LISGGTSYVP DDGLTAQQLF NCGDGLTYND FLILPGYIDF TADQVDLTSA LTKKITLKTP LVSSPMDTVT EAGMAIAMAL TGGIGFIHHN CTPEFQANEV RKVKKYEQGF ITDPVVLSPK DRVVDVFEAK ARHGFCGPI TDTGRMGSR L VGISSRDID FLKEEEHDCF LEEIMTKRED LVVAPAGITL KEANEILQRS KKGKLPVNE DDELVAIIAR TDLKKNRDYP LASKDAKKQL LCGAAIGTHE DDKYRLDLLA QAGVDVVLD SSQGN SIFQI NMIKYIKDKY PNLQVIGGNV VTAAQAKNLI DAGVDALRVG MGSGSICITQ EVLACGRPQA TAVYKVSEYA RRFGVPVIAD GGIQNVGHIA KALALGASTV MMGSLLAATT EAPGEYFFSD GIRLKKYRGM GSLDAMDKHL SSQNR YFSEA D KIKVAQGV S GAVQDKGSIH K FVPYLIAGI QHSCQDIGAK SLTQVRAMMY SGELKFEKRT SSAQVEGGVH SLHSYEKRLF
Sequence Length	514
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for IMPD2 recombinant protein	Catalyzes the conversion of inosine 5'-phosphate (IMP) to xanthosine 5'-phosphate (XMP), the first committed and rate-limiting step in the de novo synthesis of guanine nucleotides, and therefore plays an important role in the regulation of cell growth. Could also have a single-stranded nucleic acid-binding activity and could play a role in RNA and/or DNA metabolism. It may also have a role in the development of malignancy and the growth progression of some tumors.
Product Categories/Family for IMPD2 recombinant protein	Cancer
References	Cloning and sequence analysis of the human and Chinese hamster inosine-5'-monophosphate dehydrogenase cDNAs.Collart F.R., Huberman E.J. Biol. Chem. 263:15769-15772(1988) Two distinct cDNAs for human IMP dehydrogenase.Natsumeda Y., Ohno S., Kawasaki H., Konno Y., Weber G., Suzuki K.J. Biol. Chem. 265:5292-5295(1990) Cloning and sequence of the human type II IMP dehydrogenase gene.Glesne D.A., Huberman E.Biochem. Biophys. Res. Commun. 205:537-544(1994) Characterization of the human inosine-5'-monophosphate dehydrogenase type II gene.Zimmermann A.G., Spsychala J., Mitchell B.S.J. Biol. Chem. 270:6808-6814(1995) Chromosomal localization and structure of the human type II IMP dehydrogenase gene.Glesne D.A., Collart F.R., Varkony T., Drabkin H., Huberman E.Genomics 16:274-277(1993) Characterization of human type I and type II IMP dehydrogenases.Carr S.F., Papp E., Wu J.C., Natsumeda Y.J. Biol. Chem. 268:27286-27290(1993) Recombinant human inosine monophosphate dehydrogenase type I and type II proteins. Purification and characterization of inhibitor binding.Hager P.W., Collart F.R., Huberman E., Mitchell B.S.Biochem. Pharmacol. 49:1323-1329(1995) Inosine 5'-monophosphate dehydrogenase binds nucleic acids in vitro and in vivo.McLean J.E., Hamaguchi N., Belenky P., Mortimer S.E., Stanton M., Hedstrom L.Biochem. J. 379:243-251(2004) Immunoaffinity profiling of tyrosine phosphorylation in cancer cells.Rush J., Moritz A., Lee K.A., Guo A., Goss V.L., Spek E.J., Zhang H., Zha X.-M., Polakiewicz R.D., Comb M.J.Nat. Biotechnol. 23:94-101(2005) Global, in vivo, and site-specific phosphorylation dynamics in signaling networks.Olsen J.V., Blagoev B., Gnäd F., Macek B., Kumar C., Mortensen P., Mann M.Cell 127:635-648(2006) A novel variant L263F in human inosine 5'-monophosphate dehydrogenase 2 is associated with diminished enzyme activity.Wang J., Zeevi A., Webber S., Girnita D.M., Addonizio L., Selby R., Hutchinson I.V., Burckart G.J.Pharmacogenet. Genomics 17:283-290(2007) A quantitative atlas of mitotic phosphorylation.Dephoure N., Zhou C., Villen J., Beausoleil S.A., Bakalarski C.E., Elledge S.J., Gygi S.P.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008) Lys-N and trypsin cover complementary parts of the phosphoproteome in a refined SCX-based approach.Gauci S., Helbig A.O., Slijper M., Krijgsveld J., Heck A.J., Mohammed S.Anal. Chem. 81:4493-4501(2009) Lysine acetylation targets protein complexes and co-regulates major cellular functions.Choudhary C., Kumar C., Gnäd F., Nielsen M.L., Rehman M., Walther T.C., Olsen J.V., Mann M.Science 325:834-840(2009) Quantitative phosphoproteomics reveals widespread full phosphorylation site occupancy during mitosis.Olsen J.V., Vermeulen M., Santamaria A., Kumar C., Miller M.L., Jensen L.J., Gnäd F., Cox J., Jensen T.S., Nigg E.A., Brunak S., Mann M.Sci. Signal. 3:RA3-RA3(2010) Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstueimmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome.Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014) Crystal structure of human type II inosine monophosphate dehydrogenase implications for ligand binding and drug design.Colby T.D., Vanderveen K., Strickler M.D., Markham G.D., Goldstein B.M.Proc. Natl. Acad. Sci. U.S.A. 96:3531-3536(1999) Crystal structure of human inosine monophosphate dehydrogenase type II complexed with the MPA/NAD analog C2-MAD.Risal D., Strickler M.D., Goldstein B.M.Submitted (DEC-2002) to the PDB data bankThe conformation of NAD bound to human inosine monophosphate Dehydrogenase Type II.Risal D., Strickler M.D., Goldstein B.M.Submitted (DEC-2002) to the PDB data bank

NCBI AND UNIPROT INFORMATION

NCBI GI #	66933016
NCBI GeneID	3615
NCBI Accession #	NP_000875.2
NCBI GenBank Nucleotide #	NM_000884.2
UniProt Accession #	P12268; Q6LEF3
Molecular Weight	82.3 kDa
NCBI Official Full Name	inosine-5'-monophosphate dehydrogenase 2

NCBI Official Synonym Full Names	inosine monophosphate dehydrogenase 2
NCBI Official Symbol	IMPDH2
NCBI Official Synonym Symbols	IMPD2; IMPDH-II
NCBI Protein Information	inosine-5'-monophosphate dehydrogenase 2
UniProt Protein Name	Inosine-5'-monophosphate dehydrogenase 2
UniProt Gene Name	IMPDH2
UniProt Synonym Gene Names	IMP dehydrogenase 2; IMPD 2; IMPDH 2
UniProt Entry Name	IMDH2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/impdh2-recombinant-protein-e-coli/81593>