

Active Recombinant Human IMPDH1 Protein, His-Tagged

Cat. No. IMPDH1-01H Lot. No. (See product label)

SPECIFICATION

| | |
|-------------------------------------|---|
| Product Overview | Recombinant Human IMPDH1 Protein, His-Tagged was expressed in sf21 cell |
| Species | Human |
| Source | Sf21 Cells |
| Description | The protein encoded by this gene acts as a homotetramer to regulate cell growth. The encoded protein is an enzyme that catalyzes the synthesis of xanthine monophosphate (XMP) from inosine-5'-monophosphate (IMP). This is the rate-limiting step in the de novo synthesis of guanine nucleotides. Defects in this gene are a cause of retinitis pigmentosa type 10 (RP10). Several transcript variants encoding different isoforms have been found for this gene. |
| Bio-activity | Measured by its ability to convert the substrate inosine-5'-phosphate (IMP) to xanthosine-5'-phosphate (XMP). The specific activity is >100 pmol/min/μg, as measured under the described conditions. |
| Molecular Mass | 61 kDa |
| N-terminal Sequence Analysis | Met |
| Endotoxin | <1.0 EU per 1 μg of the protein by the LAL method. |
| Purity | >90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by |

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Coomassie® Blue Staining.

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
 6 months from date of receipt, -20 to -70 °C as supplied.
 3 months, -20 to -70 °C under sterile conditions after opening.

Storage Buffer

Supplied as a 0.2 µm filtered solution in Tris, NaCl, EDTA, Glycerol and TCEP.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name

[IMPDH1 inosine monophosphate dehydrogenase 1 \[Homo sapiens \(human\) \]](#)

Official Symbol

[IMPDH1](#)

Synonyms

DKFZp781N0678, EC 1.1.1.205, IMP (inosine 5'-monophosphate) dehydrogenase 1, IMP (inosine monophosphate) dehydrogenase 1, IMP Dehydrogenase 1, IMPD, IMPD 1, IMPD1, IMPDH 1, IMPDH-I, IMPDH1, LCA11, LCA11RP10, RP10, inosine-5'-monophosphate dehydrogenase 1, retinitis pigmentosa 10 (autosomal dominant), sWSS2608

Gene ID

[3614](#)

mRNA Refseq

[NM_000883.4](#)

Protein Refseq

[NP_899066](#)

MIM

[146690](#)

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UniProt ID

P20839

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