

## Product datasheet for PH315206

### IMPDH1 (NM\_000883) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	IMPDH1 MS Standard C13 and N15-labeled recombinant protein (NP_000874)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215206
Predicted MW:	64.1 kDa
Protein Sequence:	>RC215206 representing NM_000883 Red=Cloning site Green=Tags(s)

MEGPLTPPPLQGGAAAVPEPGARQHPGHETAARYSARLLQAGYEPESPRLDLATHPTTPRSELSVVLLAGVGVQMDRLRRASMADYLLISGGTGYVPEDGLTAQQLFASADGLTYNDFLILPGFIDFIADEVDLTSALTRKITLKTPLISSPMDTVTEADMAIAMALMGGIGFIHHNCTPEFQANVVRKVKKFEQGFITDPVVLSPSHTVGDVLEAKMRHGFSGIPITETGTMGSKLVGIVTSRDIDFLAEKDHTLLSEVMTPIELVVAPAGVTLKEANEILQRSKKGKLPVNDCEDELVAIIARTDLKKNRDYPLASKDSQKQLLCGAAVGTREDDKYRLDLLTQAGVDVIVLDSSSQNSVYQIAMVHYIKQKYPHLQVIGGNVVTAAQAKNLIDAGVDGLRVGMGCGSICITQEVMACGRPQGTAVYKVAEYARRFGVPIIADGGIQTVGHVVKALALGASTVMMGSLLAATTEAPGEYFFSDGVRLKKYRGMGSLDAMEKSSSSQKRYFSEGDKVKIAQGVSGSIQDKGSIQKFPYLYIAGIQHGCQDIGARLSVLRSMYSSELKFEKRTMSAQIEGGVHGLHSYEKRLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_000874</a>
RefSeq Size:	2880
RefSeq ORF:	1797



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**Synonyms:** IMPD; IMPD1; IMPDH-I; LCA11; RP10; sWSS2608

**Locus ID:** 3614

**UniProt ID:** [P20839](#), [B3KRZ3](#)

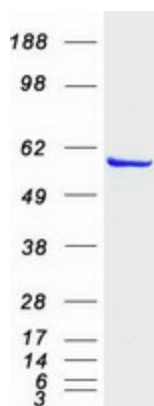
**Cytogenetics:** 7q32.1

**Summary:** 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. [provided by RefSeq, Dec 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism

### Product images:



Coomassie blue staining of purified IMPDH1 protein (Cat# [TP315206]). The protein was produced from HEK293T cells transfected with IMPDH1 cDNA clone (Cat# [RC215206]) using MegaTran 2.0 (Cat# [TT210002]).