

## Product datasheet for PH321972

### IL4I1 (NM\_172374) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	IL4I1 MS Standard C13 and N15-labeled recombinant protein (NP_758962)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221972
Predicted MW:	65.4 kDa
Protein Sequence:	>RC221972 protein sequence Red=Cloning site Green=Tags(s)

MPNDDFCPLTIKAMGAERAPQRQPCTLHLLVLPILLSLVASQDWAERSQDPFEKCMQDPDYEQLLKV  
VTWGLNRTLKQPQRVIVVGAGVAGLVAAKVLS DAGHKVTILEADNRIGGRIFTYRDQNMGWIGELGAMRMP  
SSHRILHKLCQGLGLNLTKFTQYDKNTWTEVHEVKLRNYVVEKVPEKLGALRPQEKGHSPEDIYQMALN  
QALKDLKALGCRKAMKKFERHTLLEYLLGEGNLSRPAVQLLGDVMSDGGFFYLSFAEALRAHSCLSDRLQ  
YSRIVGGWDLPRALLSSLVLLNAPVVAMTQGPHDVHVQIETSPPARNLKVLKADVLLTASGPAVK  
RITFSPPLPRHMQEALRRLHYVPATKVFLSFRPFWREEHIEGGHSNTDRPSRMIFYPPREGALLLASY  
TWSDAAAFAGLSREEALRLALDDVAALHGPVVRQLWDGTGVVWRWAEDQHSQGGFVVQPPALWQTEKDD  
WTVPYGRIYFAGEHTAYPHGWVETAVKSALRAAIKINSRKGPASDTASPEGHASDMEGQGHVHGVAASSPS  
HDLAKEEGSHPPVQQLSLQNTTHTRTSH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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_758962</a>
RefSeq Size:	2359
RefSeq ORF:	1767



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**Synonyms:** FIG1; hIL4I1; LAAO; LAO

**Locus ID:** 259307

**UniProt ID:** [Q96RQ9](#)

**Cytogenetics:** 19q13.33

**Summary:** This gene encodes a secreted L-amino acid oxidase protein which primarily catabolizes L-phenylalanine and, to a lesser extent, L-arginine. The expression of this gene is induced by the cytokine interleukin 4 in B cells. This gene is also expressed in macrophages and dendritic cells. This protein may play a role immune system escape as it is expressed in tumor-associated macrophages and suppresses T-cell responses. This protein also contains domains thought to be involved in the binding of flavin adenine dinucleotide (FAD) cofactor. Multiple transcript variants encoding different isoforms have been found for this gene. Some transcripts of this gene share a promoter and exons of the 5' UTR with the overlapping NUP62 gene. [provided by RefSeq, Jul 2020]

**Protein Families:** Druggable Genome

**Protein Pathways:** Alanine, aspartate and glutamate metabolism, Cysteine and methionine metabolism, Metabolic pathways, Phenylalanine, tyrosine and tryptophan biosynthesis, Phenylalanine metabolism, Tryptophan metabolism, Tyrosine metabolism, Valine, leucine and isoleucine degradation

### Product images:



Coomassie blue staining of purified IL4I1 protein (Cat# [TP321972]). The protein was produced from HEK293T cells transfected with IL4I1 cDNA clone (Cat# [RC221972]) using MegaTran 2.0 (Cat# [TT210002]).