

## Product datasheet for PH307586

### CIAO1 (NM\_004804) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CIAO1 MS Standard C13 and N15-labeled recombinant protein (NP_004795)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207586
Predicted MW:	37.8 kDa
Protein Sequence:	>RC207586 protein sequence Red=Cloning site Green=Tags(s)

MKDSLVLVLLGRVPAHPDSRCWFLAWNPAGTLLASCGDRRIRIWGTEGDSWICKSVLSEGHQRTVRKVAWS  
PCGNYLASASFDATTCIWKNQDDFECVTTLEGHENEVKSVAWAPSGNLLATCSRDKSVVWVEVDEEY  
ECVSVLNSHTQDVKHVVWHPSEQELLASASYDDTVKLYREEEDDWCCATLEGHESTVWSLAFDPSGQRLA  
SCSDDRTVRIWRQYLPGNEQGVACSGSDPSWKICTLSGFHSRTIYDIAWCQLTGALATACGDDAIRVFQ  
EDPNSDPQPTFSLTAHLHQAHSQDVNCVAWNPKEPGLLASCSDDGAVAFWKYQRPEGL

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:	<u><a href="#">NP_004795</a></u>
RefSeq Size:	4053
RefSeq ORF:	1017
Synonyms:	CIA1; WDR39
Locus ID:	9391



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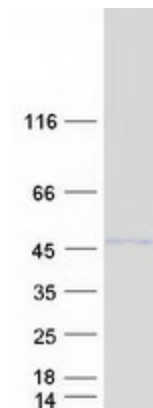
UniProt ID: [O76071](#)

Cytogenetics: 2q11.2

**Summary:** Key component of the cytosolic iron-sulfur protein assembly (CIA) complex, a multiprotein complex that mediates the incorporation of iron-sulfur cluster into extramitochondrial Fe/S proteins (PubMed:17937914, PubMed:23891004). As a CIA complex component, interacts specifically with CIAO2A or CIAO2B and MMS19 to assist different branches of iron-sulfur protein assembly, depending of its interactors. The complex CIAO1:CIAO2B:MMS19 binds to and facilitates the assembly of most cytosolic-nuclear Fe/S proteins. CIAO1:CIAO2A specifically matures ACO1 and stabilizes IREB2 (PubMed:23891004). Seems to specifically modulate the transactivation activity of WT1 (PubMed:9556563). As part of the mitotic spindle-associated MMXD complex it may play a role in chromosome segregation (PubMed:20797633). [UniProtKB/Swiss-Prot Function]

**Protein Families:** Transcription Factors

### Product images:



Coomassie blue staining of purified CIAO1 protein (Cat# [TP307586]). The protein was produced from HEK293T cells transfected with CIAO1 cDNA clone (Cat# [RC207586]) using MegaTran 2.0 (Cat# [TT210002]).