

CIAO1 Protein, Human

Cat. No.:	HY-P702046
Synonyms:	CIAO1; Probable cytosolic iron-sulfur protein assembly protein CIAO1; WD repeat-containing protein 39
Species:	Human
Source:	E. coli
Accession:	O76071 (M1-L339)
Gene ID:	9391
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>CIAO1 emerges as a pivotal player in the cytosolic iron-sulfur protein assembly (CIA) complex, a multiprotein entity orchestrating the integration of iron-sulfur clusters into extramitochondrial Fe/S proteins. Its dynamic role within this complex involves specific interactions with CIAO2A or CIAO2B and MMS19, influencing distinct branches of iron-sulfur protein assembly depending on its binding partners. The CIAO1:CIAO2B:MMS19 assembly is particularly involved in facilitating the assembly of most cytosolic-nuclear Fe/S proteins, while the CIAO1:CIAO2A complex specifically contributes to the maturation of ACO1 and stabilization of IREB2. Beyond its involvement in iron-sulfur biogenesis, CIAO1 extends its influence to modulating the transactivation activity of WT1 and participating in chromosome segregation through its association with the mitotic spindle-associated MMXD complex. As an integral component of the CIA complex and various interacting networks, CIAO1 stands as a versatile orchestrator in cellular processes involving iron-sulfur clusters and beyond.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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