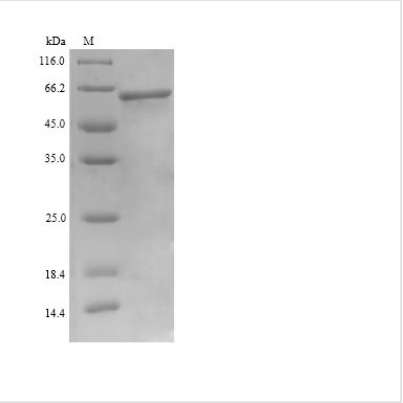
Recombinant Human UDP-N-acetylhexosamine pyrophosphorylase (UAP1)

Product Code	CSB-YP618067HU
Relevance	Converts UTP and GlcNAc-1-P into UDP-GlcNAc, and UTP and GalNAc-1-P into UDP-GalNAc. Isoform AGX1 has 2 to 3 times higher activity towards GalNAc-1-P, while isoform AGX2 has 8 times more activity towards GlcNAc-1-P.
Abbreviation	Recombinant Human UAP1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q16222
Alias	Antigen X ;AGX;Sperm-associated antigen 2;AGX-1;AGX-2
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MNINDLKLTLSKAGQEHLLRFWNELEEAQQVELYAELQAMNFEELNFFFQKAI EGFNQSSHQKNVDARMEPVPREVLGSATRDQDQLQAWESEGLFQISQNKVA VLLLAGGQGTRLGVAYPKGMYDVGLPSRKTLFQIQAERILKLQQVAEKYYGNK CIIPWYIMTSGRTMESTKEFFTKHKYFGLKKENVIFFQQGMLPAMSFDGKIILEE KNKVSMAPDGNGGLYRALAAQNIVEDMEQRGIWSIHVYCVDNILVKVADPRFI GFCIQKGADCGAKVVEKTNPTEPVGVVCRVDGVYQVVEYSEISLATAQKRSS DGRLLFNAGNIANHFFTVPFLRDVVNVYEPQLQHHVAQKKIPYVDTQGQLIKPD KPNGIKMEKFVFDIFQFAKKFVVYEVLREDEFSPLKNADSQNGKDNPTTARHA LMSLHHCWVLNAGGHFIDENGSRLPAIPRSATNGKSETITADVNHNLKDANDV PIQCEISPLISYAGEGLESYVADKEFHAPLIIDENGVHELVKNGI
Research Area	Signal Transduction
Source	Yeast
Target Names	UAP1
Protein Names	Recommended name: UDP-N-acetylhexosamine pyrophosphorylase Alternative name(s): Antigen X Short name= AGX Sperm-associated antigen 2 Including the following 2 domains: UDP-N-acetylgalactosamine pyrophosphorylase EC= 2.7.7
Expression Region	1-522aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	60.8kDa

Protein Length	Full Length

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant Human UAP1 protein production in Yeast cells involves the integration of a DNA fragment encoding the Human UAP1 protein (1-522aa) into a plasmid vector, which is then introduced into Yeast cells. Following screening, positive cells are cultured and induced to synthesize the UAP1 protein. A N-terminal 6xHis tag is attached to the protein. Cell lysis is carried out to harvest the recombinant Human UAP1 protein, which is purified through affinity purification and then analyzed using SDS-PAGE and subsequent staining of the gel with Coomassie Brilliant Blue. The purity of the resulting recombinant Human UAP1 protein reaches over 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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