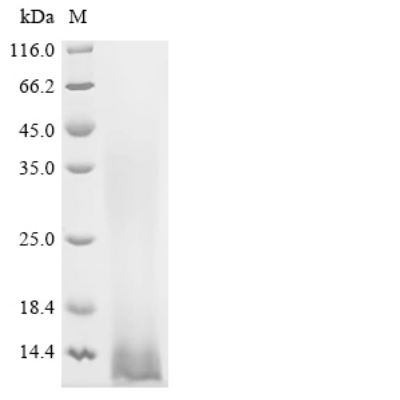
Recombinant Human Metallothionein-2 (MT2A), partial

Product Code	CSB-YP015120HU
Relevance	Metallothioneins have a high content of cysteine residues that bind various heavy metals; these proteins are transcriptionally regulated by both heavy metals and glucocorticoids.
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.	P02795
Alias	Metallothionein-2AMetallothionein-II ;MT-II
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MDPNCSCAAGDSCTCAGSCKCKECKCTSCKKSCCSCCPVGCAKCAQGCICK GASDKCSC
Lead Time	3-7 business days
Research Area	Epigenetics and Nuclear Signaling
Source	Yeast
Gene Names	MT2A
Protein Names	Recommended name: Metallothionein-2 Short name= MT-2 Alternative name(s): Metallothionein-2A Metallothionein-II Short name= MT-II
Expression Region	1-59aa
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	7.9kDa
Protein Description	Partial
Image	



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

Description

To achieve the expression of the recombinant Human MT2A protein in Yeast cells, a DNA fragment encoding the Human MT2A protein (1-59aa) is inserted into a plasmid vector, which is then transferred to Yeast cells. After screening positive cells, they are cultured and induced to generate the MT2A protein. A N-terminal 6xHis tag is attached to the protein. Cells are lysed to collect the recombinant Human MT2A protein, which is purified through affinity purification and then identified using SDS-PAGE and subsequent staining of the gel with Coomassie Brilliant Blue. The purity of the obtained recombinant Human MT2A protein is 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.