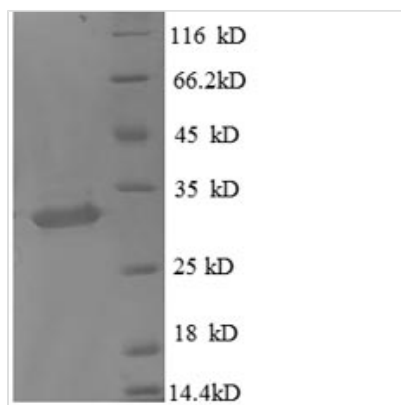




# Recombinant Human Metallothionein-1X (MT1X), partial

<b>Product Code</b>	CSB-EP015119HU
<b>Relevance</b>	Metallothioneins have a high content of cysteine residues that bind various heavy metals; these proteins are transcriptionally regulated by both heavy metals and glucocorticoids.
<b>Abbreviation</b>	Recombinant Human MT1X protein, partial
<b>Storage</b>	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.
<b>Uniprot No.</b>	P80297
<b>Alias</b>	Metallothionein-IX ;MT-IX
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MDPNCSCSPVGSCACAGSCKCKECKCTSCKKSCCSCCPVGCAKCAQGCICK GTSDKCSC
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	MT1X
<b>Expression Region</b>	1-59aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal GST-tagged
<b>Mol. Weight</b>	32.9kDa
<b>Protein Length</b>	Partial
<b>Image</b>	



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

## Description

The DNA coding sequence translated into the human MT1X protein sequence (1-59aa) was fused with the N-terminal GST tag sequence to form the recombinant DNA, which was inserted into an expression vector. The reconstructed expression vector was transformed into the E.coli for follow-up expression. The product underwent purification to obtain the recombinant human MT1X protein with N-terminal GST tag. The SDS-PAGE analysis determined its purity higher than 90%. After electrophoresis, a 32 kDa protein band was observed on the gel.

MT1X is a gene encoding a protein named Metallothionein-1X (abbreviated MT1X) in human and belongs to Metallothionein superfamily. Metallothionein (MT) is a kind of metal-binding protein rich in cysteine and ubiquitous. It has important significance for maintaining the metabolic balance of some essential metals in the body, resisting toxic metal toxicity, and clearing free radicals. Human MT genes include 10 functional genes: MT1A, MT1B, MT1E, MT1F, MT1G, MT1H, MT1X, MT2A, MT3 and MT4. A study has shown that cells with high expression of MT1X have strong anti-apoptotic properties, which can induce cisplatin resistance in cells.

## 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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