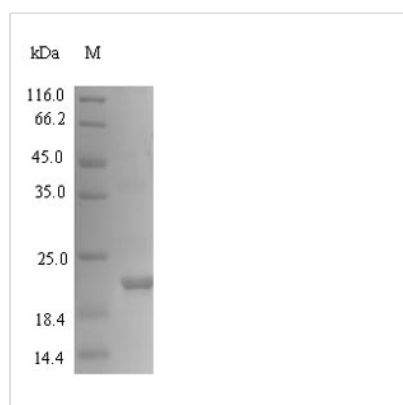




Recombinant Viscum album Viscotoxin-A3 (THI2.1), partial

Product Code	CSB-EP365586VDO
Relevance	Thionins are small plant proteins which are toxic to animal cells. They seem to exert their toxic effect at the level of the cell membrane. Their precise function is not known.
Abbreviation	Recombinant Viscum album THI2.1 protein, partial
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.	P01538
Product Type	Recombinant Protein
Immunogen Species	Viscum album (European mistletoe)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	KSCCPNTTGRNIYNACRLTGAPRPTCAKLSGCKIISGSTCPSDYPK
Research Area	Allergen
Source	E.coli
Target Names	THI2.1
Expression Region	27-72aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	20.8kDa
Protein Length	Partial

Image



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



Description

The recombinant Viscum album TH12.1 was expressed with the amino acid range of 27-72. This TH12.1 protein is theoretically predicted to have a molecular weight of 20.8 kDa. The TH12.1 protein was expressed in e.coli. Fusion of the N-terminal 6xHis-SUMO tag into the TH12.1 encoding gene fragment was conducted, allowing for easier detection and purification of the TH12.1 protein in subsequent stages.

Viscum album Viscotoxin-A3 (TH12.1) is a toxic protein found in European mistletoe. It exhibits cytotoxic properties, disrupting cell membranes by forming pores and inducing cell death. This characteristic makes it a potential candidate for cancer research. The toxin selectively targets cancer cells, showing promise for developing anticancer drugs.

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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