

# Recombinant Human TIMP2/TIMP-2 Protein (His Tag)

Catalog Number:PKSH033118



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

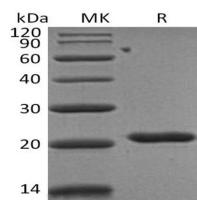
## Description

<b>Synonyms</b>	Metalloproteinase Inhibitor 2;CSC-21K;Tissue Inhibitor of Metalloproteinases 2;CSC-21K;DDC8
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Cys27-Pro220
<b>Accession</b>	P16035
<b>Calculated Molecular Weight</b>	22.8 kDa
<b>Observed molecular weight</b>	26 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Reconstitution</b>	Please refer to the specific buffer information in the printed manual.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Tissue inhibitors of metalloproteinases or TIMPs are a family of proteins that regulate the activation and proteolytic activity of the zinc enzymes known as matrix metalloproteinases (MMPs). There are four members of the family, TIMP-1, TIMP-2, TIMP-3, and TIMP-4. Tissue Inhibitor of Metalloproteinases 2 (TIMP-2) is a non N-glycosylated protein with a molecular mass of 22 kDa. It produced by a wide range of cell types, which inhibits MMPs non-covalently by the formation of binary complexes and irreversibly inactivates them by binding to their catalytic zinc cofactor. TIMP-2 also has erythroid-potentiating and cell growth promoting activities.

## For Research Use Only

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