

# Recombinant Human Dermatopontin/DPT Protein (Fc & His Tag)



Catalog Number:PKSH032350

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

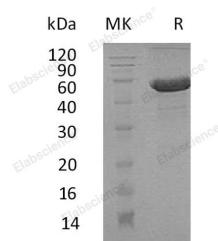
## Description

<b>Synonyms</b>	Dermatopontin;Tyrosine-rich acidic matrix protein;TRAMP and DPT;
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Gln19-Val201
<b>Accession</b>	Q07507
<b>Calculated Molecular Weight</b>	49.9 kDa
<b>Observed molecular weight</b>	50-60 kDa
<b>Tag</b>	C-Fc-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g 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 $\mu$ m filtered solution of 20mM PB, 4% Sucrose, 4% mannitol, 0.02% Tween80, pH 7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer in
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Dermatopontin, also known as Tyrosine-rich acidic matrix protein, TRAMP and DPT, is a secreted protein which belongs to the dermatopontin family. DPT is expressed in various tissues, such as fibroblasts, heart, skeletal muscle, brain and pancreas. It seems to mediate adhesion by cell surface integrin binding. DPT may serve as a communication link between the dermal fibroblast cell surface and its extracellular matrix environment. DPT can enhance TGFB1 activity through interaction with decorin. In addition, DPT accelerates collagen fibril formation, stabilizes collagen fibrils against low-temperature dissociation and inhibits cell proliferation.

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Fax: 1-832-243-6017