

DPT Protein, Human, Recombinant (hFc & His)

General Information

Synonyms:	TRAMP and DPT;Tyrosine-rich acidic matrix protein;Dermatopontin
Protein Construction:	Gln19-Val201
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q07507
Molecular Weight:	50-60 KDa (reducing condition)
AA Sequence:	Gln19-Val201

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 4% Sucrose, 4% mannitol, 0.02% Tween 80, pH 7.5.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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