

Product Data Sheet

DST Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71840
Synonyms:	DST; BPAG1; DMH; DT; Dystonia musculorum protein; Hemidesmosomal plaque protein
Species:	Human
Source:	P. pastoris
Accession:	Q03001 (1M-195G)
Gene ID:	667
Molecular Weight:	Approximately 23.7 kDa

DDODEDTIES
PROPERTIES
AA Sequence
Appearance
Formulation
Endotoxin Level
Reconsititution
Storage & Stability
Storage & Stability
Shipping

DESCRIPTION

Background

DST Protein serves as a crucial cytoskeletal linker, integrating intermediate filaments, actin, and microtubule cytoskeleton networks. Its role varies across cell types, anchoring intermediate filaments to the actin cytoskeleton in neural and muscle cells or connecting keratin-containing intermediate filaments to hemidesmosomes in epithelial cells. DST Protein may self-aggregate to form filaments or a two-dimensional mesh. In sensory neurons, it regulates the organization and stability of the microtubule network, facilitating axonal transport. Additionally, it mediates the docking of the dynein/dynactin motor complex to vesicle cargos for retrograde axonal transport through interactions with TMEM108 and DCTN1. In epithelial cells, DST Protein plays a structural role in assembling hemidesmosomes, anchoring keratin-containing intermediate filaments to the inner plaque and contributing to the regulation of keratinocyte polarity and motility, particularly in mediating integrin

ITGB4's control of RAC1 activity.

Caution: Product has not been fully validated for medical applications. For research use only.

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