Recombinant Human Sperm-associated antigen 5/SPAG5 Protein (His Tag)

Catalog Number: PDEH100978

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

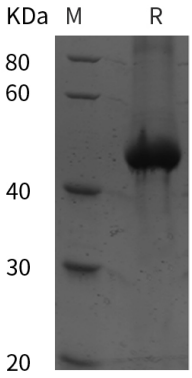
Description

Species	Human
Source	E.coli-derived Human SPAG5 protein Asn482-Ala850, with an N-terminal His & C-terminal His
Calculated MW	40.5 kDa
Observed MW	48 kDa
Accession	Q96R06
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human Sperm-associated antigen 5/SPAG5 proteins, 2 μg/lane of Recombinant Human Sperm-associated antigen 5/SPAG5 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 48 kDa.

Background

Astrin is a homodimeric protein with a globular head domain and a long stalk. It is an essential component of the mitotic spindle. Astrin is highly expressed in testis and is detected at low levels in placenta, liver, pancreas, thymus and colon. Its expression is cell cycle-regulated, with an increase from prophase to cytokinesis and return to basal levels at the next G1 phase. In non-dividing cells Astrin is associated with microtubules unless under cellular stress, then it is localized in stress granules.