Recombinant HASP protein (His tag)

Catalog Number	547818
Synonyms	Germ cell-specific gene 2 protein; H-haspin; Haploid germ cell-specific nuclear protein kinase
Species	Human
Expression System	E. coli
Accession	Q8TF76
Molecular Weight	Predictes a molecular mass of 40.49 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	457-798
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 457-798 aa (Q8TF76) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Serine/threonine-protein kinase haspin fragment (residues 457-798), encompassing the complete protein kinase domain. This high-purity protein is an essential tool for investigating mitotic regulation, histone H3 phosphorylation, and chromosomal passenger complex dynamics in cell cycle studies. Serine/threonine-protein kinase haspin (HASPIN) is a crucial mitotic regulator that phosphorylates histone H3 at threonine-3 (H3T3ph), serving to position and modulate the activation of AURKB and other components of the chromosomal passenger complex at centromeres. This activity ensures proper chromatid cohesion, metaphase alignment, and normal progression through the cell cycle. The protein localizes to the nucleus during interphase and associates with chromosomes and the spindle apparatus during mitosis, highlighting its dynamic role in cell division processes.