

GSG2 recombinant protein

Recombinant GSG2 (470-798) protein

CATALOG #
AAA60245

HOST
Baculovirus

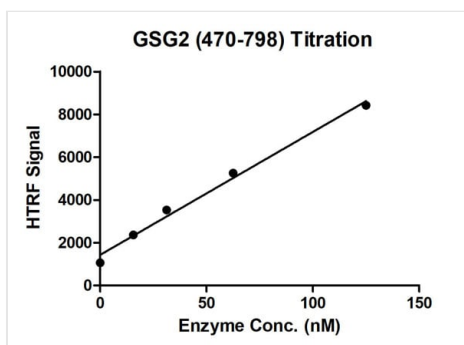
PRODUCT SYNONYMS

GSG2; Recombinant GSG2 (470-798) protein; Histone H3 Associated Protein Kinase; GSG2 recombinant protein

PRODUCT SPECIFICATIONS

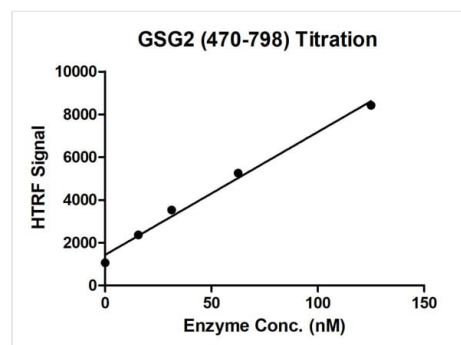
Host	Baculovirus
Form/Format	Recombinant GSG2 (470-798)/HASPIN protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant GSG2 (470-798)/HASPIN protein that includes amino acids 470-798 of human GSG2 protein (accession number NP_114171.2) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag.
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for a given product is shown on the lot-specific Technical Data Sheet.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



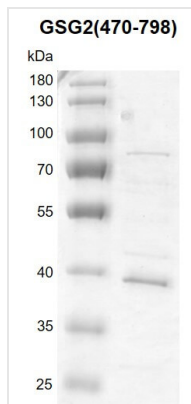
Application Data

HTRF assay for GSG2 (470-798) / HASPIN activity 1 uM STK S1 substrate was incubated with different concentrations of GSG2 (470-798) / HASPIN protein in a 10 ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl₂, 1 mM DTT, and 100uM ATP for 1 hour. Then 10 ul detection reagents containing STK antibody (1:2) and SA-XL665 (1:100) diluted with 1x Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant GSG2 (470-798) / HASPIN protein 10% SDS-PAGE gel with Coomassie blue staining MW: 38.7 kDa Purity: >80%

ADDITIONAL INFORMATION

Related Product Information for GSG2 recombinant protein	Background: HASPIN (Histone H3 Associated Protein Kinase) is a serine/threonine-protein kinase that phosphorylates histone H3 at 'Thr-3' (H3T3ph) during mitosis. It may act through H3T3ph to both position and modulate activation of AURKB and other components of the chromosomal passenger complex (CPC) at centromeres to ensure proper chromatid cohesion, metaphase alignment and normal progression through the cell cycle.
Product Categories/Family for GSG2 recombinant protein	Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	56790919
NCBI GeneID	83903
NCBI Accession #	NP_114171.2
NCBI GenBank Nucleotide #	NM_031965.2
UniProt Accession #	Q8TF76 ; Q5U5K3 ; Q96MN1 ; Q9BXS7
Molecular Weight	88,495 Da
NCBI Official Full Name	serine/threonine-protein kinase haspin
NCBI Official Synonym Full Names	germ cell associated 2 (haspin)
NCBI Official Symbol	GSG2
NCBI Official Synonym Symbols	HASPIN
NCBI Protein Information	serine/threonine-protein kinase haspin; H-haspin; germ cell-specific gene 2 protein; haploid germ cell-specific nuclear protein kinase
UniProt Protein Name	Serine/threonine-protein kinase haspin
UniProt Gene Name	GSG2
UniProt Entry Name	HASP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.