



Recombinant Rat Serpin H1 (Serpinh1)

Product Code	CSB-EP021087RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P29457
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	AEV KKPVEAAAPG TAEKLSSKAT TLAERSTGLA FSLYQAMAKD QAVENILLSP LVVASSLGLV SLGGKATTAS QAKAVLSAEK LRDEEVHTGL GELVRSLSNS TARNVTWKLK SRLYGPSSVS FADDFVRSSK QHYNCEHSKI NFRDKRSALQ SINEWASQTT DGKLPEVTKD VERTDGALLV NAMFFKPHWD EKFHHKMVDN RGFMVTRSYT VGVTTMMHRTG LYNYYDDEKE KLQLVEMPLA HKLSSLIILM PHHVEPLERL EKLLTKEQLK TWMGKMQKKA VAISLPKGVV EVTHDLQKHL AGLGLTEAID KNKADLSRMS GKKDLYLASV FHATAFEWDT EGNPFQDIY GREELRSPKL FYADHPFIFL VRDNQSGSLL FIGRLVRPKG DKMRDEL
Source	E.coli
Target Names	Serpinh1
Protein Names	Recommended name: Serpin H1 Alternative name(s): 47 kDa heat shock protein Collagen-binding protein Short name= Colligin GP46
Expression Region	18-417
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes a member of the serpin superfamily of serine proteinase inhibitors. Its expression is induced by heat shock. The protein localizes to the endoplasmic reticulum lumen and binds collagen; thus it is thought to be a molecular chaperone involved in the maturation of collagen molecules. Autoantibodies to this protein have been found in patients with rheumatoid arthritis.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.