



Recombinant Pig Coagulation factor XII (F12), partial

Product Code	CSB-MP007918PI
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O97507
Product Type	Recombinant Protein
Immunogen Species	Sus scrofa (Pig)
Purity	>85% (SDS-PAGE)
Sequence	<p>I PPWKDPRKHK VMASEHTVVL TVTGEPCHFP FQYYRQLYYK CIQRGQRGPR PWCATTPNFE KDQRWAYCLE PMKVKDHCNK GNPCQKGGTC VNMPNGPHCI CPDHFTGKHC QKEKCFEPQF LQFFQENEIW HRFEPAGVSK CQCKGPKAQC KPVASQVCST NPCLNGGSCL QTEGHRLCRC PTGYAGRLCD VDLKERCYSD RGLSYRGMAQ TTLSGAPCQP WASEATYWNM TAEQALNWGL GDHAFCRNPD NDTRPWCFVW RGDQLSWQYC RLARCQAPIG EAPPILTPTQ SPSEHQDSPL LSREPQPTTQ TPSQNLTSAW CAPPEQRGPL PSAGLVGCGQ RLRKRLSSLN R</p>
Source	Mammalian cell
Target Names	F12
Protein Names	Recommended name: Coagulation factor XII EC= 3.4.21.38 Alternative name(s): Hageman factor Short name= HAF Cleaved into the following 2 chains: 1. Coagulation factor XIIa heavy chain 2. Coagulation factor XIIa light chain
Expression Region	20-371
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	partial
Target Details	<p>This gene encodes coagulation factor XII which circulates in blood as a zymogen. This single chain zymogen is converted to a two-chain serine protease with an heavy chain (alpha-factor XIIa) and a light chain. The heavy chain contains two fibronectin-type domains, two epidermal growth factor (EGF)-like domains, a kringle domain and a proline-rich domain, whereas the light chain contains only a catalytic domain. On activation, further cleavages takes place in the heavy chain, resulting in the production of beta-factor XIIa light chain and the alpha-factor XIIa light chain becomes beta-factor XIIa heavy chain. Prekallikrein is cleaved by factor XII to form kallikrein, which then cleaves factor XII first to alpha-factor XIIa and then to beta-factor XIIa. The active factor XIIa participates in the initiation of blood coagulation, fibrinolysis, and the generation of bradykinin and angiotensin. It activates coagulation factors VII and XI. Defects in this gene do not cause any clinical symptoms and the sole effect</p>



is that whole-blood clotting time is prolonged.

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.