



# Recombinant Human Acrosin (ACR)

<b>Product Code</b>	CSB-EP001183HU1
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P10323
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	KDNATCDGPCGLRFRQNPQGGVRIVGGKAAQHGAWPMMVSLQIFTYNSHRY HTCGGSLNLSRWVLTAAHCFVKGNNVHDWRLVFGAKEITYGNNKPKAPLQE RYVEKIIHEKYNSATEGNDIALVEITPPISCGRFIGPGCLPHFKAGLPRGSQSC WVAGWGYIEEKAPRPSSILMEARVDLIDLDCNSTQWYNGRVQPTNVCAGYP VGKIDTCQGDSSGGLMCKDSKESAYVVVGITSWGVCARAKRPGIYTATWPY LNWIASKIGSNALRMIQSATPPPPTTRPPPIRPPFSHPISAHLPWYFQPPPRPLP PRPPAAQ
<b>Source</b>	E.coli
<b>Target Names</b>	ACR
<b>Protein Names</b>	Recommended name: Acrosin EC= 3.4.21.10Cleaved into the following 2 chains: 1. Acrosin light chain 2. Acrosin heavy chain
<b>Expression Region</b>	20-343
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	Acrosin is the major proteinase present in the acrosome of mature spermatozoa. It is a typical serine proteinase with trypsin-like specificity. It is stored in the acrosome in its precursor form, proacrosin. The active enzyme functions in the lysis of the zona pellucida, thus facilitating penetration of the sperm through the innermost glycoprotein layers of the ovum. The mRNA for proacrosin is synthesized only in the postmeiotic stages of spermatogenesis. In humans proacrosin first appears in the haploid spermatids.
<b>Reconstitution</b>	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.
<b>Shelf Life</b>	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.