# Recombinant Hepatitis B Virus C protein, His-tagged

**Cat. No.** C -75H **Lot. No.** (See product label)

## SPECIFICATION

| | |
|---|---|
| **Product Overview** | Recombinant hepatitis B virus “e” antigen produced in E.coli, is a 139 a.a (10-149a.a) protein and having a molecular mass of approximately 23kDa. The HBeAg sequence is derived from HBV adw2 and fused to 6xHis Tag at C-terminus. |
| **Species** | HBV |
| **Source** | E.coli |
| **ProteinLength** | 139 a.a (10-149a.a) |
| **Description** | Hepatitis B virus is the main cause for human liver disease, chronic infection frequently causes liver cancer and cirrhosis. The HBV core gene codes 2 distinct protein products, a 21.5-kDa protein being assembled to form nucleocapsid particles designated HBcAg, which wraps the viral DNA as well as the viral polymerase and RNase H, and a precore protein, designated as HBeAg, which is directly to the endoplasmic reticulum, processed at N- and C-terminally and secreted as non-particulate e-anitgen (HBeAg). The pre-core protein contains an extra 29 N-terminal amino acids, serving as a signal peptide to direct the nascent polypeptide into secretory pathway. After the secretion, mature HBeAg is deleted at the residue 149 C-terminally and retains 10 precore residues N-terminally. HBcAg and HBeAg are distinctly recognized by antibodies but highly cross-reactive at the T-cell level. The e antigen is found in the circulation, it is found during the active HBV infection, positive result indicates the risk for contagiousness, and is also used as indicator for the effectiveness of HBV treatment. Positive anti-HBeAg specifies an active stage of |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| | acute HBV infection that is in its final stages, the risk for contagiousness is dramatically reduced. |
| **Form** | Phosphate buffered saline with 50mM arginine. |
| **Molecular Mass** | 23kDa |
| **AA sequence** | SKLCLGWLWGMDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYREALESPEH CSPHHTALRQAILCWGELMTLATWVGNNLEDPASRDLVVNYVNTNVGLKIRQLLWF HISCLTFGRETVLEYLVSFGVWIRTPPAYRPPNAPILSTLPETTVVRRRDRGRSPRRR TPSPRRRRSPSPRRRRSQSRESQC. |
| **Purity** | Protein is >95% pure as determined by 12% PAGE (coomassie staining). |
| **Applications** | Immunoassay. |
| **Usage** | The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. |
| **Specificity** | Immunoreactive with sera HBV-infected individuals. |
| **Storage** | HBeAg although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles. |
| **Shipping** | Ice Packs |

## GENE INFORMATION

| | |
|---|---|
| **Gene Name** | C precore; HBe antigen; PreC; HBeAg; precore protein; external core antigen; HBeAg; p25 [ Hepatitis B virus ] |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **Official Symbol** | C |
| **Synonyms** | C; precore; HBe antigen; PreC; HBeAg; precore protein; external core antigen; HBeAg; p25; pre-capsid protein; C0 uORF; capsid protein |
| **Gene ID** | 944568 |
| **Protein Refseq** | YP_009173857.1 |
| **UniProt ID** | P03146 |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA