# Recombinant Human Homeobox protein Hox-D4 (HOXD4)

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| **Product Code** | CSB-EP010687HU-B |
| **Storage** | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| **Uniprot No.** | P09016 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | ≥85% (SDS-PAGE) |
| **Sequence** | MVMSSYMVNS KYVDPKFPPC EEYLQGGYLG EQGADYYGGG AQGADFQPPG LYPRPDFGEQ PFGGSGPGPG SALPARGHGQ EPGGPGGHYA APGEPCPAPP APPPAPLPGA RAYSQSDPKQ PPSGTALKQP AVVYPWMKKV HVNSVNPNYT GGEPKRSRTA YTRQQVLELE KEFHFNRYLT RRRRIEIAHT LCLSERQIKI WFQNRRMKWK KDHKLPNTKG RSSSSSSSSS CSSSVAPSQH LQPMAKDHHT DLTTL |
| **Source** | E.coli |
| **Target Names** | HOXD4 |
| **Protein Names** | Recommended name: Homeobox protein Hox-D4 Alternative name(s): Homeobox protein HHO.C13 Homeobox protein Hox-4B Homeobox protein Hox-5.1 |
| **Expression Region** | 1-255 |
| **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 protein |
| **Target Details** | This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, located on different chromosomes, consisting of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXD genes located at 2q31-2q37 chromosome regions. Deletions that removed the entire HOXD gene cluster or 5 end of this cluster have been associated with severe limb and genital abnormalities. This protein may play a role in determining positional values in developing limb buds. Alternatively spliced variants have been described but their full length nature has not been determined. |
| **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 |

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| | 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.<br>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. |