

**HUMAN BCHE PROTEIN, HIS TAG****Cat.#:** 11872**Product Name:** Human BCHE Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** BCHED;CHE1;CHE2;E1**Target:** BCHE**UNIPROT ID:** P06276**Description:** Recombinant Human BCHE Protein with C-terminal 6xHis tag**Background:** This gene encodes a cholinesterase enzyme and member of the type-B carboxylesterase/lipase family of proteins. The encoded enzyme exhibits broad substrate specificity and is involved in the detoxification of poisons including organophosphate nerve agents and pesticides, and the metabolism of drugs including cocaine, heroin and aspirin. Humans homozygous for certain mutations in this gene exhibit prolonged apnea after administration of the muscle relaxant succinylcholine. [provided by RefSeq, Jul 2016]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 65.9 kDa after removal of the signal peptide. The apparent molecular mass of BCHE-His is approximately 70-130 kDa due to glycosylation.**Molecular Characterization:** BCHE(Glu29-Leu602) 6×His tag**Purity:** The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



Figure 1. Human BCHE Protein, His Tag on SDS-PAGE under reducing condition.