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# HAND1 Human

**Catalog #:**PRPS-1238

For research use only.

**Description:**HAND1 Human Recombinant produced in E. coli is a single polypeptide chain containing 238 amino acids (1-215) and having a molecular mass of 26.0 kDa.HAND1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Synonyms:**Heart- And Neural Crest Derivatives-Expressed Protein 1, Extraembryonic Tissues Heart Autonomic Nervous System And Neural Crest Derivatives-Expressed Protein 1, Class A Basic Helix-Loop-Helix Protein 27, BHLHa27, EHAND, Thing1, Hxt.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSMNLVGSY AHHHHHHHPH PAHPMLHEPF LFGPASRCHQ ERPYFQSWLL SPADAAPDFP AGGPPPAAAA AATAYGPDAR PGQSPGRLEA LGGRLGRRKG SGPKKERRRT ESINSAFAEL RECIPNVPAD TKLSKIKTLR LATSYIAYLM DVLAKDAQSG DPEAFKAELK KADGGRESKR KRELQQHEGF PPALGPVEKR IKGRTGWPQQ VW

**Purity:**Greater than 90% as determined by SDS-PAGE.

**Formulation:**
The HAND1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.

**Stability:**
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

**Usage:**
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**
HAND1 is a member of the basic helix-loop-helix family of transcription factors. HAND1 is one of two HAND proteins, two closely related family members that are irregularly expressed in the emerging ventricular chambers and have a key part in cardiac morphogenesis. Operating in a complementary manner, they work in the development of the right ventricle and aortic arch arteries, implicating them as mediators of congenital heart disease. Furthermore, HAND1 is obligatory for early trophoblast differentiation.

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