
Product Data Sheet

Product Name: HAND1 Human
 Cat. No.: GP23611
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMNLVGSY AHHHHHHHHPH PAHPMLHEPF LFGPASRCHQ ERPYFQSWLL SPADAAPDFP AGGPPAAAAA AATAYGPDAR PGQSPGRLEA LGGRLGRRKG SGPKKERRRT ESINSFAEL RECIPNVPAD TKLSKIKTLR LATSIIAYLM DVLAKDAQSG DPEAFKAELK KADGGRESKR KRELQHEGF PPALGPVEKR IKGRTGWPQQ VWALELNQ		
Formulation	The HAND1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

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.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

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.

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