
Product Data Sheet

Product Name: HES7 Human
 Cat. No.: GP23635
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Hairy and enhancer of split 7; bHLHb37; SCDO4; Transcription factor HES-7; HES7; hHes7; Class B basic helix-loop-helix protein 37; bHLH factor Hes7.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMVTRDRA ENRDGPKMLK PLVEKRRRDR INRSLEELRL LLLERTRDQN LRNPKLEKAE ILEFAVGYL RSRVEPPAA AAPGVPRSPV QDAEALASCY LSGFRECLLR LAAFAHDASP AARAQLFSAL HGYL RPKPPR PKPVDPRPPA PRPSLDPAAP ALGPALHQRP PVHQGHPSPR CAWSPSLCSP RAGDSGAPAP LTGLLPPPPP PHRQDGAPKA PLPPPPAFWR PWP.		
Formulation	The HES7 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

HES7 belongs to the Hairy and enhancer of split family of bHLH transcription factors. The mouse ortholog of the HES7 is set by Notch signaling. The protein serves as a transcriptional repressor, and is involved in correct patterning of the axial skeleton. A mutation in HES7 has been shown to result in spondylocostal dysostosis. Multiple transcript variants encoding different isoforms have been discovered for HES7.

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.

Background

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

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HES7 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 253 amino acids (1-230) and having a molecular mass of 27kDa. HES7 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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