
Product Data Sheet

Product Name: HES2 Human
 Cat. No.: GP23634
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	bHLHb40; hairy and enhancer of split 2; Class B basic helix-loop-helix protein 40; HES2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGLPRRA GDAAELRKSL KPLLEKRRRA RINQSLSQLK GLILPLGRE NSNCSKLEKA DVLEMTVRFL QELPASSWPT AAPLPCDSYR EGYACVARL ARVLPACRVL EPAVSARLLE HLWRRRAASAT LDGGRAGDSS GPSAPAPAPA SAPEPASAPV PSPSPPCGP GLWRPW.		
Formulation	HES2 protein solution (1mg/ml) contains 20mM Tris-HCl buffer, (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Hairy and enhancer of split 2 (HES2) belongs to the HES family and comprised of one basic helix-loop-helix (bHLH) domain and one orange domain. The HES family members form a complex with TLE, the mammalian homologue of Groucho, and this interaction is mediated by the carboxy terminal WRPW motif of the HES proteins. Activation of Notch signaling pathway initiates activation of HES family genes throughout the interaction between Notch intracellular domain and RBPSUH (CSL). HES2 is expressed in placenta, pancreatic cancer, colon cancer with RER, cervical cancer, and in head and neck tumors.

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

HES2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 196 amino acids (1-173 a.a.) and having a molecular mass of

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20.9kDa.HES2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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