

# Recombinant Human HES1

**Cat. No.** HES1-27078TH **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment corresponding to amino acids 36-142 of Human Hes1 with an N terminal proprietary tag; Predicted MWt 37.4 kDa inclusive of tag.                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 107 amino acids                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | This protein belongs to the basic helix-loop-helix family of transcription factors. It is a transcriptional repressor of genes that require a bHLH protein for their transcription. The protein has a particular type of basic domain that contains a helix interrupting protein that binds to the N-box rather than the canonical E-box. |
| <b>Molecular Weight</b> | 37.400kDa inclusive of tags                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                  |
| <b>Storage buffer</b>   | pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                 |

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**Sequences of amino acids** KSSKPIMEKRRRRARINESLSQLKTLILDALKKDSSRHSKL EKADILEMTVKHLRNLQR  
AQMTAALSTDPVSLGKYRAGFS ECMNEVTRFLSTCEGVNTEVTRLLGH

**Sequence Similarities** Contains 1 basic helix-loop-helix (bHLH) domain.Contains 1 Orange domain.

## GENE INFORMATION

**Gene Name** HES1 hairy and enhancer of split 1, (Drosophila) [ Homo sapiens ]

**Official Symbol** HES1

**Synonyms** HES1; hairy and enhancer of split 1, (Drosophila); hairy homolog (Drosophila) , HRY; transcription factor HES-1; bHLHb39; FLJ20408; HES 1; Hes1;

**Gene ID** 3280

**mRNA Refseq** NM\_005524

**Protein Refseq** NP\_005515

**MIM** 139605

**Uniprot ID** Q14469

**Chromosome Location** 3q28-q29

**Pathway** ATF-2 transcription factor network, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Fanconi anemia pathway, organism-specific biosystem;

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**Function**

DNA binding; N-box binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in negative regulation of transcription; histone deacetylase binding; protein binding;

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