

## Product datasheet for **TP311709M**

### **HES1 (NM\_005524) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human hairy and enhancer of split 1, (Drosophila) (HES1), 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA</b>	>RC211709 representing NM_005524
<b>Clone or AA Sequence:</b>	Red=Cloning site Green=Tags(s)

MPADIMEKNSSSPVAATPASVNTTPDKPKTASEHRKSSKPIMEKRRRARINESLSQLKTLILDALKKDSS  
RHSKLEKADILEMTVKHLRNLQRAQMTAALSTDPVSLGKYRAGFSECMNEVTRFLSTCEGVNTEVRTRLL  
GHLANCMTQINAMTYPGQPHPALQAPPPPPGPGGPQHAPFAPPPPLVPIPGGAAPPPGGAPCKLGSQAG  
EAAKVFGGFQVVPAPDGQFAFLIPNGAFAHSGPVIPIVYTSNSGTSVGPNVSPSSGPSLTADSMWRPWRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	29.4 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_005515</a></u>
<b>Locus ID:</b>	3280
<b>UniProt ID:</b>	<u><a href="#">Q14469</a></u>



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RefSeq Size: 1471

Cytogenetics: 3q29

RefSeq ORF: 840

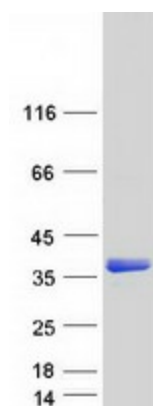
Synonyms: bHLHb39; HES-1; HHL; HRY

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transcription Factors

**Protein Pathways:** Maturity onset diabetes of the young, Notch signaling pathway

### Product images:



Coomassie blue staining of purified HES1 protein (Cat# [TP311709]). The protein was produced from HEK293T cells transfected with HES1 cDNA clone (Cat# [RC211709]) using MegaTran 2.0 (Cat# [TT210002]).