10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

Mouse Hes1 Blocking Peptide (Center)

Synthetic peptide
Catalog # BP20925a

Specification

Mouse Hes1 Blocking Peptide (Center) - Product Information

Primary Accession	P35428
Other Accession	Q04666, Q14469, Q3ZBG4, Q8AVU4, Q6IRB2

Mouse Hes1 Blocking Peptide (Center) - Additional Information

Gene ID 15205

Other Names
Transcription factor HES-1, Hairy and enhancer of split 1, Hes1, Hes-1

Target/Specificity
The synthetic peptide sequence is selected from aa 102-117 of HUMAN Hes1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Hes1 Blocking Peptide (Center) - Protein Information

Name Hes1

Synonyms Hes-1

Function
Transcriptional repressor of genes that

Mouse Hes1 Blocking Peptide (Center) - Background

Transcriptional repressor of genes that require a bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1 (By similarity). Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTG-3' with low affinity. May play a role in a functional FA core complex response to DNA cross- link damage, being required for the stability and nuclear localization of FA core complex proteins, as well as for FANCD2 monoubiquitination in response to DNA damage (By similarity).

Mouse Hes1 Blocking Peptide (Center) - References

Takebayashi K.,et al.J. Biol. Chem. 269:5150-5156(1994).
Grbavec D.,et al.Eur. J. Biochem. 258:339-349(1998).
Bae S.-K.,et al.Development 127:2933-2943(2000).

require a bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1 (By similarity). Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTG-3' with low affinity. May play a role in a functional FA core complex response to DNA cross-link damage, being required for the stability and nuclear localization of FA core complex proteins, as well as for FANCD2 monoubiquitination in response to DNA damage (By similarity).

Cellular Location
Nucleus.

Tissue Location
Expressed at high levels in undifferentiated neural precursor cells, but the level of expression decreases as neural differentiation proceeds

Mouse Hes1 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides