

# Recombinant Human Unc-5 Homolog B (C. Elegans), Fc Chimera

**Cat. No.** UNC5B-2438H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Recombinant Humanunc-5 homolog B (C. elegans) produced inCHO cells.The extracellular domain of human UNC5B (UNC5H2) (aa 28-363) is fused to the Fc portion of human IgG1. MW=80kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 28-363 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | The receptors of the UNC family (for uncoordinated) include UNC-5 of C. elegans and its four vertebrate homologs, UNC5A, B, C and D (previously called UNC5H1-4). The UNC5 family binds to the netrin family of ligands and mediates axon repulsion effect of netrin, either alone or by binding to the DCC (another netrin receptor). These receptors are type I transmembrane proteins of roughly 110-120kDa composed of two extracellular Ig-like domains, two thrombospondin type I domains, and intracellular sequence with a ZU5 domain and a death domain. UNC5B is a direct target gene for p53 that mediates p53-dependent apoptosis, and is also a dependence receptor that regulates apoptosis either positively or negatively depending on its binding with netrin-1. |
| <b>Concentration</b>    | 1mg/ml after reconstitution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | ≥90% (SDS-PAGE).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Formulation</b>           | Lyophilized. Contains PBS.                                                                                                                        |
| <b>Endotoxin Content</b>     | <0.1EU/g purified protein (LAL test; Bio Whittaker).                                                                                              |
| <b>Reconstitution</b>        | Reconstitute with 50µl sterile distilled water. Further dilutions should be made with medium containing 5% fetal calf serum or a carrier protein. |
| <b>Handling</b>              | After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.                                                              |
| <b>Storage And Stability</b> | Stable for at least 6 months after receipt when stored at -20°C.                                                                                  |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | UNC5B unc-5 homolog B (C. elegans) [ Homo sapiens ]                                                                                                                                                            |
| <b>Synonyms</b>            | UNC5B; unc-5 homolog B (C. elegans); UNC5H2; p53RDL1; unc5 (C.elegans homolog) b; Netrin receptor UNC5B; Protein unc-5 homolog B; Protein unc-5 homolog 2; p53-regulated receptor for death and life protein 1 |
| <b>Gene ID</b>             | 219699                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_170744                                                                                                                                                                                                      |
| <b>Protein Refseq</b>      | NP_734465                                                                                                                                                                                                      |
| <b>MIM</b>                 | 607870                                                                                                                                                                                                         |
| <b>UniProt ID</b>          | Q8IZJ1                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 10q22.1                                                                                                                                                                                                        |

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|-----------------|--------------------------------------------------------------|
| <b>Pathway</b>  | Axon guidance                                                |
| <b>Function</b> | netrin receptor activity; protein binding; receptor activity |