

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

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

SPECIFICATION

Product Overview Recombinant Humanunc-5 homolog B (C. elegans) produced in *CHO cells*. The extracellular domain of human UNC5B (UNC5H2) (aa 28-363) is fused to the Fc portion of human IgG1. MW=80kDa.

Species Human

Source CHO

ProteinLength 28-363 a.a.

Description 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.

Concentration 1mg/ml after reconstitution.

Purity ≥90% (SDS-PAGE).

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

GENE INFORMATION

Gene Name	UNC5B unc-5 homolog B (C. elegans) [Homo sapiens]
Synonyms	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
Gene ID	219699
mRNA Refseq	NM_170744
Protein Refseq	NP_734465
MIM	607870
UniProt ID	Q8IZJ1
Chromosome Location	10q22.1

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Pathway

Axon guidance

Function

netrin receptor activity; protein binding; receptor activity

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