

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

Cat. No. Unc5b-2439M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouseunc-5 homolog B (C. elegans) produced inHEK 293 cells.The extracellular domain of mouse UNC5B (UNC5H2) (aa 27-376) is fused to the Fc portion of human IgG1. MW=80kDa.
Species	Human
Source	HEK293
ProteinLength	27-376 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	≥95% (SDS-PAGE).

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Formulation	Lyophilized. Contains PBS.
Endotoxin Content	<0.2EU/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) [Mus musculus]
Synonyms	Unc5b; unc-5 homolog B (C. elegans); Unc5h2; A630020F16; D10Bwg0792e; 6330415E02Rik; trin receptor UNC5B; unc5 homolog 2; protein unc-5 homolog 2; unc-5 homolog 2; protein unc-5 homolog B
Gene ID	107449
mRNA Refseq	NM_029770
Protein Refseq	NP_084046
UniProt ID	Q8K1S3
Chromosome Location	10 B4; 10 32.0 cM
Pathway	Axon guidance

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Function

netrin receptor activity; protein binding; receptor activity

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