Active Recombinant Rat Unc-5 Homolog A (C. elegans), Fc-tagged

Cat. No. Unc5a-513R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Unc5aprotein was expressed in Murine myeloma cell line with the Fc part of HumanIgG1 Pro100-Lys330 (C-terminus) and Gln26-Asp358 (N-terminus).
Species	Rat
Source	Mammalian Cells
ProteinLength	26-358 a.a.
Description	Unc5a is a member ofthe UNC5 family of type I transmembrane proteins within the immunoglobulinsuperfamily. UNC5H14 have two Ig and one or two thrombospondin type 1 domainin their extracellular regions, and a ZU5 domain, a DCC binding domain and aC-terminal death domain in their cytoplasmic regions. Rat Unc5a cDNA encodes898 amino acids including a 25 aa signal peptide, a 336 aa extracellulardomain with two TSP1 domains, and a 516 aa cytoplasmic domain.
Form	Lyophilized from a0.2 μm filtered solution in PBS.
N-terminalSequence	Gln26 predicted
Molecular Weight	63.4 kDa
Activity	Measuredby its binding ability in a functional ELISA. Immobilized rr Unc5a/Fc Chimera at 5 μg/ mL (100 μL/ well) can bind rchNetrin-1with a linear range of 6-400

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	ng/mL.
Endotoxin Level	<1.0 EUper 1 μg of the protein by the LAL method.
SDS-PAGE	85-95kDa & 40-43 kDa, reducing conditions.
Purity	>90%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 μg/ mLin sterile PBS
Storage	Use a manualdefrost freezer and avoid repeated freeze-thaw cycles. 12 months from date ofreceipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditionsafter reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Unc5a unc-5 homolog A (C.elegans) [Rattus norvegicus]
Official Symbol	Unc5a
Synonyms	Unc5a; unc-5homolog A (C. elegans); Unc5h1; netrin receptor UNC5A; unc-5 homolog 1;protein unc-5 homolog 1; protein unc-5 homolog A; transmembrane receptorUnc5H1
Gene ID	60629
mRNA Refseq	NM_022206
Protein Refseq	NP_071542

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UniProt ID	O08721
Chromosome Location	17p14
Pathway	Apoptosis; Axonguidance; Developmental Biology; Netrin mediated repulsion signals; Netrin-1signaling; Regulation of Apoptosis; Role of DCC in regulating apoptosis
Function	netrin receptoractivity; receptor activity

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