

Active Recombinant Human Neurotensin Receptor 3/Sortilin

Cat. No. SORT1-15H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Neurotensin Receptor 3/Sortilin, expressed in Murine myeloma cell line.
Species	Human
Source	Mammalian Cells
Description	Sortilin (neurotensin receptor 3, glycoprotein 95) is a 95 kDa Type I transmembrane monomeric glycoprotein that is one of five known members of the mammalian vacuolar protein sorting 10p domain (Vps10pD) family of sorting receptors. Human preprosortilin is processed by signal sequence cleavage followed by propeptide cleavage at a furin recognition site. The cationic propeptide exhibits pH-dependent high affinity binding that blocks the Sortilin ligand binding site both pre and post cleavage. The extracellular/luminal sequence comprises the Vps10p domain, including 10 conserved cysteines (10 CC) essential for ligand binding. The cytoplasmic domain sorting motifs confer all trafficking during synthesis, targeting to lysosomes, endocytosis and Golgi-endosome transport? as little as 10% may be found on the cell surface.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized rhSortilin at 4 µg/mL (100 µL/well) can bind rhβNGF with a linear range of 3-200 ng/mL.
Molecular Mass	Predicted Molecular Mass: 99.7 kDa. SDS PAGE: 95-100 kDa, reducing conditions.

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Endotoxin	<1.0 eu per 1 µg of the protein by the lal</1.0
Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Usage	FOR RESEARCH USE ONLY
Quality Control Test	12 months from date of receipt, 20 to 70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, 20 to 70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Warning	Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	SORT1 sortilin 1 [Homo sapiens]
Official Symbol	SORT1
Synonyms	sortilin; NTR3; glycoprotein 95; 100 kDa NT receptor; neurotensin receptor 3
Gene ID	6272
mRNA Refseq	NM_001205228
Protein Refseq	NP_001192157
MIM	602458
UniProt ID	Q99523

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Chromosome Location	1p13.3; 1p21.3-p13.1
Pathway	BDNF signaling pathway, organism-specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; Lysosome, conserved biosystem
Function	enzyme binding; nerve growth factor binding; nerve growth factor receptor activity

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