Recombinant Rat SORT1 Protein (610-754 aa), His-tagged

Cat. No. SORT1-1527R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat SORT1 Protein (610-754 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Partial.
Species	Rat
Source	Yeast
ProteinLength	610-754 aa
Description	Functions as a sorting receptor in the Golgi compartment and as a clearance receptor on the cell surface. Required for protein transport from the Golgi apparatus to the lysosomes by a pathway that is independent of the mannose-6-phosphate receptor (M6PR). Also required for protein transport from the Golgi apparatus to the endosomes. Promotes neuronal apoptosis by mediating endocytosis of the proapoptotic precursor forms of BDNF (proBDNF) and NGFB (proNGFB). Also acts as a receptor for neurotensin. May promote mineralization of the Extracellular domain matrix during osteogenic differentiation by scavenging Extracellular domain LPL. Probably required in adipocytes for the formation of specialized storage vesicles containing the glucose transporter SLC2A4/GLUT4 (GLUT4 storage vesicles, or GSVs). These vesicles provide a stable pool of SLC2A4 and confer increased responsiveness to insulin. May also mediate transport from the endoplasmic reticulum to the Golgi.

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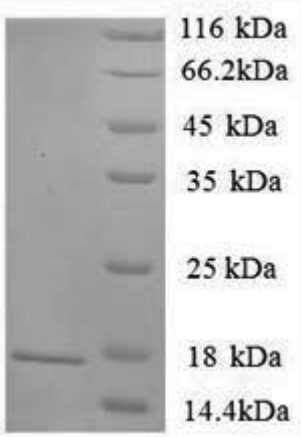
Form	Tris-based buffer,50% glycerol
Molecular Mass	18.5 kDa
AA Sequence	CEENDYTTWLAHSTDPGDYKDGCILGYKEQFLRLRKSSVCQNGRDYVVAKQPSICP CSLEDFLCDFGYFRPENASECVEQPELKGHELEFCLYGKEEHLTTNGYRKIPGDRC QGGMNPAREVKDLKKKCTSNFLNPKKQNSKSSS
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	Sort1 sortilin 1 [Rattus norvegicus]
Official Symbol	SORT1
Synonyms	SORT1; sortilin 1; sortilin; NTR3; gp110; glycoprotein 110; Nt3; Nts3;
Gene ID	83576
mRNA Refseq	NM_031767

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Protein Refseq	NP_113955
UniProt ID	O54861



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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