

Recombinant Human SLC26A5, GST-tagged

Cat. No. SLC26A5-112H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC26A5(1 a.a. - 447 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes a member of the SLC26A/SulP transporter family. The protein functions as a molecular motor in motile outer hair cells (OHCs) of the cochlea, inducing changes in cell length that act to amplify sound levels. The transmembrane protein is an incomplete anion transporter, and does not allow anions to cross the cell membrane but instead undergoes a conformational change in response to changes in intracellular Cl ⁻ levels that results in a change in cell length. The protein functions at microsecond rates, which is several orders of magnitude faster than conventional molecular motor proteins. Mutations in this gene are potential candidates for causing neurosensory deafness. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	75 kDa
AA Sequence	MDHAEENEILAATQRYYYVERPIFSHPVLQERLHTKDKVPDSIADKLKQAFTCTPKKIR NIIYMFLPITKWLPAYK FKEYVLGDLVSGISTGVLQLPQGLAFAMLAAPPIFGLYSSF YPVIMYCFGLGTSRHISIGPFAVISLMIGGVAVR LVPDDIVIPGGVNATNGTEARDALRV KVAMSVTLLSGIIQFCLGVCRFGFVAIYLTEPLVRGFTTAAAVHVFTSM LKYLFGVKT

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KRYSGIFSVVYSTVAVLQNVKLNVC SLGVGLMVFGLLGGKEFNERFKEKLPAPIPL
 EFFAVVMG TGISAGFNLKESYNVDVVGTLPLGLLPPANPDTSLFHLVYVDAIAIAIVG
 FSVTISMAKTLANKHGYQVDGNQEL IALGLCNSIGSLFQTFSISCSLSRSLVQEGTG
 GKTQTIWLTTFVSSLFLGLDYGLITAVIIALLTVIYRTQR

Applications	ELISA; WB-Re; AP; Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	SLC26A5 solute carrier family 26 (anion exchanger), member 5 [Homo sapiens (human)]
Official Symbol	SLC26A5
Synonyms	SLC26A5; solute carrier family 26, member 5 (prestin); PRES, prestin (motor protein); prestin; deafness; neurosensory; autosomal recessive; 61; DFNB61; prestin (motor protein); PRES; MGC118886; MGC118887; MGC118888; MGC118889
Gene ID	375611
mRNA Refseq	NM_001167962
Protein Refseq	NP_001161434
MIM	604943

UniProt ID	P58743
Chromosome Location	7q22.1
Function	secondary active sulfate transmembrane transporter activity; spectrin binding

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