SLC26A4-VLPs Protein, Human (HEK293, His)

Cat. No.:	HY-P702440
Synonyms:	Pendrin; Sodium-independent chloride/iodide transporter; Solute carrier family 26 member 4
Species:	Human
Source:	HEK293
Accession:	O43511 (M1-S780)
Gene ID:	5172
Molecular Weight:	86.7 kDa

PROPERTIES

AA Sequence

MAAPGGRSEP PQLPEYSCSY MVSRPVYSEL AFQQQHERRL
QERKTLRESL AKCCSCSRKR AFGVLKTLVP ILEWLPKYRV
KEWLLSDVIS GVSTGLVATL QGMAYALLAA VPVGYGLYSA
FFPILTYFIF GTSRHISVGP FPVVSLMVGS VVLSMAPDEH
FLVSSSNGTV LNTTMIDTAA RDTARVLIAS ALTLLVGIIQ
LIFGGLQIGF IVRYLADPLV GGFTTAAAFQ VLVSQLKIVL
NVSTKNYNGV LSIIYTLVEI FQNIGDTNLA DFTAGLLTIV
VCMAVKELND RFRHKIPVPI PIEVIVTIIA TAISYGANLE
KNYNAGIVKS IPRGFLPPEL PPVSLFSEML AASFSIAVVA
YAIAVSVGKV YATKYDYTID GNQEFIAFGI SNIFSGFFSC
FVATTALSRT AVQESTGGKT QVAGIISAAI VMIAILALGK
LLEPLQKSVL AAVVIANLKG MFMQLCDIPR LWRQNKIDAV
IWVFTCIVSI ILGLDLGLLA GLIFGLLTVV LRVQFPSWNG
LGSIPSTDIY KSTKNYKNIE EPQGVKILRF SSPIFYGNVD
GFKKCIKSTV GFDAIRVYNK RLKALRKIQK LIKSGQLRAT
KNGIISDAVS TNNAFEPDED IEDLEELDIP TKEIEIQVDW
NSELPVKVNV PKVPIHSLVL DCGAISFLDV VGVRSLRVIV
KEFQRIDVNV YFASLQDYVI EKLEQCGFFD DNIRKDTFFL
TVHDAILYLQ NQVKSQEGQG SILETITLIQ DCKDTLELIE
TELTEEELDV QDEAMRTLAS

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. Solubilize for 60 minutes at room temperature with occasional gentle mixing. Avoid vigorous shaking or vortexing.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is

	recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SLC26A4, a sodium-independent transporter, operates in the facilitation of chloride and iodide transport. This transporter, documented in various studies, plays a crucial role in mediating electroneutral chloride-bicarbonate, chloride-iodide, and chloride-formate exchange, each occurring with a 1:1 stoichiometry. Additionally, SLC26A4 is implicated in electroneutral iodide-bicarbonate exchange, demonstrating its versatility in transporting essential anions. The precise stoichiometry and electrogenic nature of these exchanges underscore the transporter's significance in maintaining cellular ion balance and regulating the movement of chloride and iodide ions. These functions position SLC26A4 as a key player in cellular physiology, contributing to diverse processes where chloride and iodide homeostasis is critical.

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