

SLC26A4 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702439
Synonyms:	Pendrin; Sodium-independent chloride/iodide transporter; Solute carrier family 26 member 4
Species:	Human
Source:	E. coli Cell-free
Accession:	O43511 (M1-S780, H723R)
Gene ID:	5172
Molecular Weight:	86.7 kDa

PROPERTIES

AA Sequence

MAAPGGRSEP	PQLPEYSCSY	MVSRPVYSEL	AFQQQHERRL
QERKTLRESL	AKCCSCSRKR	AFGVLKTLP	ILEWLPKYRV
KEWLLSDVIS	GVSTGLVATL	QGMAYALLAA	VPVGYGLYSA
FFPILTYFIF	GTSRHISVGP	FPVVS LMVGS	VVLSMAPDEH
FLVSSSNGTV	LNTT MIDTAA	RDTARVLIAS	ALTL LVGIIQ
LIFGGLQIGF	IVRYLADPLV	GGFTTAAAFQ	VLVSQ LKIVL
NVSTKNYNGV	LSIIYTLVEI	FQNI GDTNLA	DFTAGLLTIV
VCMAVKELND	RFRHKIPVPI	PIEVIVTIIA	TAISYGANLE
KNYNAGIVKS	IPRGFLPPEL	PPVSLFSEML	AASF SIAVVA
YAI AVSVGKV	YATKYDYTID	GNQEFIAFGI	SNIFSGFFSC
FVATTALSRT	AVQESTGGKT	QVAGIISA AI	VMIA I LALGK
LLEPLQKSVL	AAVVIANLKG	MFMQLCDIPR	LWRQNKIDAV
IWVFTCIVSI	ILGLDLGLLA	GLIFGLLTVV	LRVQFP SWNG
LGSIPSTDIY	KSTKNYKNIE	EPQGVKILRF	SSPIFYGNVD
GFKKCIKSTV	GFDAIRVYNK	RLKALRKIQK	LIKSGQLRAT
KNGIISDAVS	TNNAFEPDED	IEDLEELDIP	TKEIEIQVDW
NSELPVKVNV	PKVPIHSLVL	DCGAISFLDV	VGVRSLRVIV
KEFQRIDVNV	YFASLQDYVI	EKLEQCGFFD	DNIRKDTFFL
TVRDAILYLQ	NQVKSQEGQG	SILETITLIQ	DCKDTLELIE
TELTEEELDV	QDEAMRTLAS		

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.22 μ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level <1 EU/ μ g, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH₂O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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