

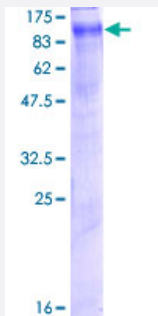
Full-Length

CLCN5 (Human) Recombinant Protein (P01)

Catalog # H00001184-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CLCN5 full-length ORF (NP_000075.1, 1 a.a. - 746 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDFLEETIPGVGTYYDDFNTIDWVREKSRDRDRHREITNKSKESTWALIHVSDAFSGWLLMLLIGL
LSGSLAGLIDISAHWMTDLKEGICTGGFWFNHEHCCWNSEHVTFEERDKCPEWNSWSQLIISTDE
GAFAYVNYFMYVLWALLFAFLAVSLVKVFAPYACSGIPEIKTILSGFIIRGYLGKWTLVIKTITLVAV
SSGLSLGKEGPLVHVACCCGNILCHCFNKYRKNEAKRREVLAAAAAGVSVAFGAPIGGVLFSL
EEVSYYFPLKTLWRSFFAALVAAFTLRSINPFGNSRLVLFYVEFHTPWHLFELVFPILLGIFGGLWG
ALFIRTNAWCRKRKTTQLGKYPVIEVLVVTAILAFPNEYTRMSTSELISLNFDCGLLDSSKLCD
YENRFNTSKGGELPDRPAGVGVYSAMWQLALTLILKIVITIFFGMKIPSGLFIPSMVGAIAGRLLGV
GMEQLAYYHQEWTVFNSWCSQGADCITPGLYAMVGAAACLGTVTRMTVSLVIMFELTGGLEYV
PLMAAAMTSKWVADALGREGYDAHIRLNGYPFLEAKEEFAHKTAMDVMKPRRNDPLLTVLTQD
SMTVEDVETISETTYSGFPPVVSRESQRLVGFVLRDLIISIENARKKQDGVVSTSIYFTEHSPPLP
PYTPPTLKLRLNLDLSPFTVTDLTPEIVVDIFRKLGLRQCLVTHNGRLLGIITKKDVLKHIAQMANQD
PDSILFN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

109.5

Interspecies Antigen Sequence

Mouse (98)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CLCN5

Entrez GeneID	1184
GeneBank Accession#	NM_000084.1
Protein Accession#	NP_000075.1
Gene Name	CLCN5
Gene Alias	CLC5, CLCK2, DENTS, NPHL1, NPHL2, XLRH, XRN, hCIC-K2, hCIC-K2
Gene Description	chloride channel 5
Omim ID	300008 300009 300554 310468
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the CIC family of chloride ion channels and ion transporters. Mutations in this gene have been found in Dent disease and renal tubular disorders complicated by nephrolithiasis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000023279 OTTHUMP00000023280 OTTHUMP00000023281 OTTHUMP00000023282

Publication Reference

- [The interaction between megalin and CIC-5 is scaffolded by the Na⁺-H⁺ exchanger regulatory factor 2 \(NHERF2\) in proximal tubule cells.](#)

Hryciw DH, Jenkin KA, Simcocks AC, Grinfeld E, McAinch AJ, Poronnik P.

The International Journal of Biochemistry & Cell Biology 2012 May; 44(5):815.

Application: Func, PI, WB-Re, Recombinant protein

Disease

- [Genetic Predisposition to Disease](#)
- [Kidney Calculi](#)
- [Kidney Failure](#)
- [Nephrocalcinosis](#)