

Product datasheet for TP525214

Cldn19 (NM_153105) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse claudin 19 (Cldn19), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR225214 representing NM_153105 <div> <div>Red</div>=Cloning site <div>Green</div>=Tags(s) </div> <p> MANSGLQLLGYFLALGGWVGIIASTALPQWKQSSYAGDAITAVGLYEGLWMSCASQSTGQVQCKLYDSL LALDGHISARALMVAVLLGFVAMVLSVGMKCTRVGDSNPTAKSRVAISGGALFLLAGLCTLTAVSWY ATLVTQEFFNPSTPVNARYEFGPALFVGWASAGLAMLGGSFLCCTCPEPERANSIPQPYRSGPSTAAREY V </p> <div> <div>TR</div> <div>TRPLEQKLISEEDLAANDILDYKDDDDKV</div> </div>
Tag:	C-MYC/DDK
Predicted MW:	22.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_694745</u>
Locus ID:	242653
UniProt ID:	<u>Q9ET38</u>
RefSeq Size:	4236


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Cytogenetics: 4 D2.1

RefSeq ORF: 633

Summary: This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. siRNA knockdown of this gene in mice develops the FHHNC (familial hypomagnesemia with hypercalciuria and nephrocalcinosis) symptoms of chronic renal wasting of magnesium and calcium together with defective renal salt handling. The protein encoded by this gene interacts with another family member, Claudin 16, and their interaction is required for their assembly into tight junctions and for renal reabsorption of magnesium. This protein is a constituent of tight junctions in the Schwann cells of peripheral myelinated nerves and the gene deficiency affects the nerve conduction of peripheral myelinated fibers. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2010]