CLDN5/Claudin-5 Protein, Rat (Cell-Free, His)

Cat. No.:	HY-P702249
Synonyms:	Claudin-5
Species:	Rat
Source:	E. coli Cell-free
Accession:	Q9JKD6 (M1-V218)
Gene ID:	65131
Molecular Weight:	24.6 kDa

PROPERTIES

AA Sequence	M G S A A L E I L G L V L C L V G W V G L I L A C G L P M W Q V T A F L D H N I V T A Q T T W K G L W M S C V V Q S T G H M Q C K V Y E S V L A L S A E V Q A A R A L T V G A V L L A L V A L F V T L T G A Q C T T C V A P G P V K A R V A L T G G A L Y A L C G L L A L V P L C W F A N I V V R E F Y D P T V P V S Q K Y E L G A A L Y I G W A A S A L L M C G G G L V C C G A W V C T G R P E F S F P V K Y S A P R R T T A N G D Y D K K N Y V
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. 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	Claudin-5 (CLDN5) assumes a pivotal role in the precise closure of the intercellular space within tight junctions. This protein establishes direct interactions with key scaffolding proteins, including TJP1/ZO-1, TJP2/ZO-2, and TJP3/ZO-3, suggesting its active involvement in the molecular architecture of tight junction complexes. Additionally, CLDN5 engages in interactions with MPDZ, further expanding its network of associations, and emphasizing its potential contribution to the regulation of tight junction integrity and function.

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

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