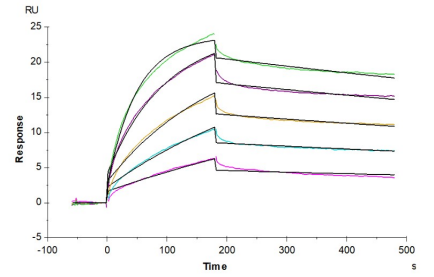
Bioactive HuPro®

CLDN18 (Human) Recombinant Protein (Biotin)

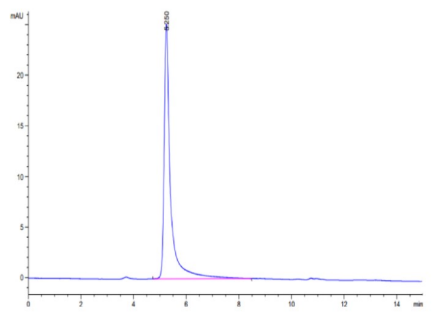
Catalog # P10388 Size 100 ug

Applications



Surface Plasmon Resonance

Biotinylated Human Claudin18.2 VLP captured on CM5 Chip via Streptavidin can bind Anti-Claudin18.2 Antibody with an affinity constant of 1.28 nM as determined in SPR assay (Biacore T200) (QC Test).



SEC-HPLC

The purity of Biotinylated Human CLDN18 is greater than 95% as determined by SEC-HPLC.

Specification

Product Description	Human CLDN18 (P56856-2, Met1-Val261) partial recombinant protein expressed in HEK293 cells.
Sequence	Met1-Val261
Host	Human
Theoretical MW (kDa)	29
Reactivity	Human
Form	Liquid

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Conjugation	Biotin
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% by HPLC
Endotoxin Level	< 0.1 EU per 1 ug as determined by the LAL method.
Activity	The affinity constant was1.28 nM, determined by SPR assay.
Recommend Usage	Biological Activity SEC-HPLC The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 300 mM L-Arginine, pH 7.4.
Storage Instruction	Store at -80°C for 12 months. Aliquot to avoid repeated freezing and thawing.
Note	Please use within one month after protein reconstitution.

Applications

- Functional Study
- Surface Plasmon Resonance

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Gene Info — CLDN18

Entrez GeneID	51208
Protein Accession#	P56856-2
Gene Name	CLDN18
Gene Alias	SFTA5, SFTPJ
Gene Description	claudin 18
Omim ID	609210
Gene Ontology	Hyperlink

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Gene Summary	CLDN18 belongs to the large claudin family of proteins, which form tight junction strands in epithelial cells (Niimi et al., 2001 [PubMed 11585919]).[supplied by OMIM
Other Designations	surfactant associated 5|surfactant associated protein J|surfactant, pulmonary associated protein J

Pathway

- Cell adhesion molecules (CAMs)
- Leukocyte transendothelial migration
- Tight junction

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