Recombinant human Olfactomedin-4/OLFM4 Protein

Catalog No.: RP01761

Sequence Information

Species
human

Gene ID
10562

Swiss Prot
Q6UX06

Tags
C-6His

Synonyms
GC1; OLM4; OlfD; GW112; hGC-1; hOLfD; UNQ362; bA209J19.1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
56.02 kDa

Observed MW
70-75 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Olfactomedin-4 (OLFM4), previously called GC-1 (G-CSF stimulated clone-1) is an secreted glycoprotein that is a member of the Olfactomedin/Noelin family of protein . It is expressed in epithelial cells of the prostate, small intestine, colon, bone marrow, and in several cancers , and is up-regulated in epithelial cells during inflammation . Mature OLFM4 is a 490 amino acid (aa) protein that is secreted mainly in a polymeric form which is held together by disulfide bonds and carbohydrate interactions . Mature human OLFM4 shares 71% aa sequence identity with mature mouse and rat OLFM4. Olfactomedin-4 (OLFM4) interacts with cell surface lectins and cadherins, which helps cell adhesion and cell spreading of NIH3T3 and 293T/17 cells . OLFM4 plays a critical role in regulating progression of prostate cancer and is also novel biomarker for triple-negative breast cancer .

Basic Information

Description
Recombinant human Olfactomedin-4/OLFM4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp21-Gln510) of human Olfactomedin-4/OLFM4 (Accession #NP_006409.3) fused with a 6×His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

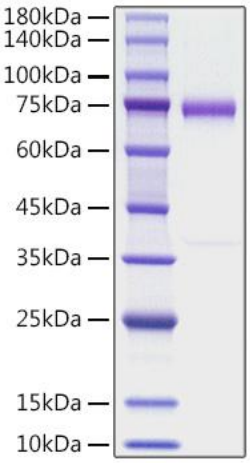
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant human Olfactomedin-4/OLFM4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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