Olfactomedin, Human CellExp™, human recombinant

CATALOG #: 7225-10 10 µg

ALTERNATE NAMES: OLFM4, GC1, GW112, Olfactomedin-4, KIAA4294, OLM4, OlfD, UNQ362, hGC-1, hOLfD

SOURCE: HEK 293 cells (Asp 21 - Gln 510)

PURITY: ≥ 95% by SDS-PAGE gel

MOL. WEIGHT: This protein is fused with 10 × His tag at the C-terminus, has a calculated MW of 56 kDa. The predicted N-terminus is Asp 21. DTT-reduced protein migrates as 65-70 kDa due to glycosylation.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

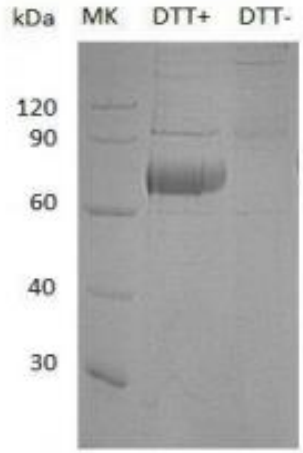
FORM: Lyophilized

FORMULATION: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

STORAGE CONDITIONS: Lyophilized protein should be stored at -20°C for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

RECONSTITUTION: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

DESCRIPTION: Olfactomedin-4/OLFM4 is a secreted protein which contains one olfactomedin-like domain. OLFM4 is expressed during myeloid lineage development,it strongly expressed in the prostate,small intestine,colon and moderately expressed in the bone marrow and stomach. OLFM4 is an antiapoptotic factor that promotes tumor growth. It expressed at high levels in stomach cancer and colon cancer tissues. it promotes proliferation of pancreatic cancer cells by favoring the transition from the S to G2/M phase. In myeloid leukemic cell lines, OLFM4 inhibits cell growth and induces cell differentiation and apoptosis. Through interaction with cell surface lectins and cadherin, OLFM4 facilitates cell adhesion. It may play a role in the inhibition of EIF4EBP1 phosphorylation/deactivation. Induction of OLFM4 in cancer cells was reported to have a novel antiapoptotic action via binding to the potent apoptosis inducer GRIM-19.



Human recombinant Olfactomedin

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