

Datasheet for ABIN7197233

Olfactomedin 4 Protein (OLFM4) (His tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	Olfactomedin 4 (OLFM4)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Olfactomedin 4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human OLFM4 Protein (His Tag)
Sequence:	Met 1-Gln 510
Characteristics:	A DNA sequence encoding the human OLFM4 (NP_006409.3) (Met 1-Gln 510) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	Olfactomedin 4 (OLFM4)
Alternative Name:	OLFM4 (OLFM4 Products)
Background:	Background: Olfactomedin-4, also known as G-CSF-stimulated clone 1 protein, Antiapoptotic protein GW112, and OLFM4, is a secreted protein which contains one olfactomedin-like domain. The OLFM4 gene was recently reported to inhibit various apoptotic pathways and promote

Target Details

proliferation of cancer cells, suggesting that OLFM4 might serve as a diagnostic marker for human cancers. Thus, OLFM4 mRNA might be a useful tool to support the diagnosis of cancer, irrespective of the clinical stages. It is overexpressed in a number of human tumor types, especially in those of the digestive system. GW112 is associated with GRIM-19, a protein known to be involved in regulating cellular apoptosis. Functionally, GW112 could significantly attenuate the ability of GRIM19 to mediate retinoic acid-IFN-beta-mediated cellular apoptosis and apoptosis-related gene expression. In addition, GW112 demonstrated strong antiapoptotic effects in tumor cells treated with other stress exposures such as hydrogen peroxide. Finally, forced overexpression of GW112 in murine prostate tumor cells led to more rapid tumor formation in a syngeneic host. OLFM4 is an important regulator of cell death that plays important roles in tumor cell survival and tumor growth. As a candidate gene for cancer-specific expression. The serum olfactomedin 4 (OLFM4) is a useful marker for Gastric cancer (GC) and its measurement alone or in combination with Reg IV has utility in the early detection of GC. GW112 has an antiapoptotic property against the cytotoxic agents-induced apoptosis. It suggested that GW112 could be an important mediator in NF kappaB-dependent tumorigenesis of digestive tract tissues.

Synonym: Olfactomedin-4, OLM4, Antiapoptotic protein GW112, G-CSF-stimulated clone 1 protein, hGC-1, hOLfD, OLFM4, GW112

Molecular Weight: 56.6 kDa

NCBI Accession: [NP_006409](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.