Recombinant Human Uteroglobin

20150302BB

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**100-432S**
Size:	10 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	*7356*
Synonyms:	Urinary protein 1, CC10, Urine protein 1, Clara cell phospholipid-binding protein, CCPBP

Uteroglobin, a member of the Secretoglobin superfamily, also known as Clara cell phospholipid-binding protein, is a multifunctional protein that can exert anti-inflammatory and anti-tumorigenic effects by binding small hydrophobic molecules such as phospholipids and prostaglandins. The small, non-glycosylated protein named for its high levels of expression in pre-implantation embryos, where it exhibits growth stimulatory effects, is produced and secreted by the non-ciliated, non-mucous Clara cells predominant in the epithelial surfaces of pulmonary airways, as well as other non-ciliated epithelia. Members of the Secretoglobin superfamily demonstrate a high level of structural conservation and are characterized as small, secretory homo- or heterodimers. In addition to sequestering pro-inflammatory mediators and carcinogens, Uteroglobin has been implicated in the inhibition of cell migration and invasion, platelet aggregation, and T cell differentiation. Recombinant Human Uteroglobin is an 8.0 kDa homodimeric protein consisting of 142 amino acid residues.

Sequence

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MEICPSFQRV IETLLMDTPS SYEAAMELFS PDQDMREAGA
QLKKLVDTLP QKPRESIIKL MEKIAQSSLC N
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Database References

Protein RefSeq:	NP_00348.1
Uniprot ID:	P11684
mRNA RefSeq:	NM_003357.4

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	Lyophilized from 1x PBS
Length (aa):	142
MW:	16.1 kDa (Dimer)

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/m. *Do not vortex*. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer (e.g. PBS) containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Data not available.