

Recombinant Human CC16 protein (His tag)

Catalog Number:PDMH100049



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	Uteroglobin;Clara cell phospholipid-binding protein;CCPBP;Clara cells 10 kDa secretory protein;CC10;Secretoglobin family 1A member 1;Urinary protein 1;UP-1;UP1;Urine protein 1;SCGB1A1;CCSP;UGB
Species	Human
Expression Host	HEK293 Cells
Sequence	Glu22-Asn91
Accession	P11684
Calculated Molecular Weight	9.9 kDa
Observed molecular weight	10 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Uteroglobin is a small; non-glycosylated secreted protein of the secretoglobin superfamily. It is produced by the non-ciliated; non-mucous secretory cells that predominate in lung bronchioles (Clara cells); and other non-ciliated epithelia that communicate with the external environment. Expression is induced by steroid hormones such as estrogen; and enhanced by the non-steroid hormone prolactin. Human Uteroglobin cDNA encodes a 21 amino acid (aa) signal sequence and a 70 aa mature protein. The mature protein forms a disulfide-linked head-to-tail homodimer of 16 kDa. This homodimer is thought to form a binding pocket that binds hydrophobic ligands such as phospholipids; progesterone and retinols. Binding of fibronectin to Uteroglobin in the kidney is thought to protect against nephropathy; while binding of the lipocalin-1 receptor has been reported to suppress cancer cell motility and invasion.

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