



Recombinant Protein Technical Manual
Recombinant Human Semenogelin/SEMG1 Protein
(His Tag)
RPES4378

Product Data:

Product SKU: RPES4378

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P04279

Protein Information:

Molecular Mass: 43.8 kDa

AP Molecular Mass: 29-54 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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 a 0.2 µm filtered solution of 20mM Hac-NaAc, 150mM NaCl, pH 4.5.

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

Application:

Synonyms: Semenogelin; Semenogelin I; SGI; SEMG1; SEMG; Alpha-Inhibin-92; Alpha-Inhibin-31; Seminal Basic Protein

Immunogen Information:

Sequence: Gln24-Thr402

Background:

Semenogelin (SEMG1) is the predominant protein in semen; it is a secretory protein involved in the formation of a gel matrix entrapping the accessory gland secretions and ejaculated spermatozoa. The prostate-specific antigen (PSA) protease processes SEMG1 into smaller peptides, each possibly having a separate function. In the proteolysis process, Alpha-inhibin-92 and alpha-inhibin-31 are produced; they inhibit the secretion of pituitary follicle-stimulating hormone. At the same time, it breaks down the gel matrix, allowing the spermatozoa to move more freely.