



Recombinant Protein Technical Manual

Recombinant Mouse SerpinB8 Protein (His Tag)

RPES3777

Product Data:

Product SKU: RPES3777

Size: 20µg

Species: Mouse

Expression host: Baculovirus-Insect Cells

Uniprot: NP_035589.1

Protein Information:

Molecular Mass: 43.6 kDa

AP Molecular Mass: 43.6 kDa

Tag: C-His

Bio-activity:

Purity: > 94 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein 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 sterile 50mM Tris, 100mM NaCl, pH 8.0

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

Application:

Synonyms: CAP-2;CAP2;NK10;ovalbumin;Spi8

Immunogen Information:

Sequence: Met 1-Pro 374

Background:

Serpins are the largest and most diverse family of serine protease inhibitors which are involved in a number of fundamental biological processes such as blood coagulation, complement activation, fibrinolysis, angiogenesis, inflammation and tumor suppression and are expressed in a cell-specific manner. Mouse SerpinB8, also known as Cytoplasmic antiproteinase 2, Peptidase inhibitor 8, SerpinB8, PI-8, SERPINB8 and CAP2, is a member of the Serpin superfamily. SERPINB8 was broadly expressed. In normal neuroendocrine tissues, strongest SerpinB8 expression was detected in islets of Langerhans of the pancreas. Moderate SerpinB8 expression was observed in neuroendocrine cells of the thyroid, adrenal cortex, colon, and pituitary gland. In the pancreas, SerpinB8 is specifically expressed by insulin-producing beta cells, and can be used as an additional diagnostic immunohistochemical marker. Mouse SerpinB8 distribution alters during kidney regeneration, possibly to control a prohormone convertase involved in inflammation or tissue repair.