



Recombinant Protein Technical Manual

Recombinant Mouse SerpinE2/SERPINE2 Protein (His Tag) RPES1692

Product Data:

Product SKU: RPES1692

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q07235

Protein Information:

Molecular Mass: 43.2 kDa

AP Molecular Mass: 50-55 kDa

Tag: C-His

Bio-activity:

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

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

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 150 mM NaCl, pH8.0.

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

Application:

Synonyms: Glia-derived nexin; GDN; Peptidase inhibitor 7; PI-7; Protease nexin 1; PN; Protease nexin I; Serine protease-inhibitor 4; Serpin E2; Pi7; Pn1; Spi4

Immunogen Information:

Sequence: Ser20-Pro397

Background:

Serpin E2 is a member of the Serpin superfamily of the serine protease inhibitors. Serpin E2 is a potent inhibitor of thrombin, plasmin and plasminogen activators. It is differentially expressed during neuronal differentiation and is able to transform human embryonic kidney cells into neuron-like cells. Its over-expression in mice leads to progressive neuronal and motor dysfunction in these animals. It is also over-expressed in the majority of pancreatic carcinoma as well as gastric and colorectal cancer samples whereas it is weakly expressed in all normal pancreas and chronic pancreatitis tissue samples. It plays an important role in controlling male fertility because its knockout male mice show a marked impairment in fertility from the onset of sexual maturity and its abnormal expression is found in the semen of men with seminal dysfunction.