

## Serpin E2 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	Pi7;Protease nexin I;Spi4;Pn1;Serine protease-inhibitor 4;PI-7;Glia-derived nexin;Serpin E2;GDN;PN-1;Peptidase inhibitor 7;Protease nexin 1
Protein Construction:	Ser20-Pro397
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q07235
Molecular Weight:	50-55 KDa (reducing condition)
AA Sequence:	Ser20-Pro397

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Sodium Acetate, 150 mM NaCl, 5% Trehalose, 5% Mannitol, 0.02% Tween 80, 1 mM EDTA, pH 4.0.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Serpin E2 is a member of the Serpin superfamily. It is differentially expressed during neuronal differentiation and is able to transform human embryonic kidney cells into neuronlike 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. Serpin E2 is a potent inhibitor of thrombin, trypsin, urokinase, plasmin and plasminogen activators. 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.

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