Data Sheet (Cat.No.TMPY-04934)

TargetMol

Serpin A3n Protein, Rat, Recombinant (His)

General Information

Synonyms:	serine (or cysteine) peptidase inhibitor, clade A, member 3N
Protein Construction:	A DNA sequence encoding the rat Serpina3n (AAH78796.2) (Met1-Lys408) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Thr 20
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	AAH78796.2
Molecular Weight:	45 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Serpina3n may represent a circulating biomarker of muscle atrophy associated with GC and, broadly, a reflection of dynamic changes in muscle mass. Serpina3n blocks endogenous increases in the activity of select skeletal muscle resident proteases during injury or dystrophic disease, which stabilizes the sarcolemma leading to less myofiber degeneration and increased regeneration.

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