

## Serpina1d Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77486
Synonyms:	Alpha-1-antitrypsin 1-4; Serine protease inhibitor 1-4; Serpin A1d; Dom4; Spi1-4
Species:	Mouse
Source:	HEK293
Accession:	Q00897 (M1-K413)
Gene ID:	20703
Molecular Weight:	45-50 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Serpina1d, a vigilant sentinel in the intricate landscape of cellular regulation, assumes the role of an inhibitor with a specialization in serine proteases. Its watchful gaze extends to trypsin and chymotrypsin, where it demonstrates remarkable efficacy in thwarting their enzymatic activities. However, its prowess takes a nuanced turn, displaying a relative inefficacy against elastase. Serpina1d's strategic inhibition of specific serine proteases underscores its significance as a discerning regulator, contributing to the delicate balance of enzymatic activities within cellular environments.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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