

Serpina1d Protein, Mouse (HEK293)

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| Cat. No.: | HY-P77484 |
| 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: | Approximately 54 kDa |

PROPERTIES

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| Biological Activity | Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate Mca-Arg-Pro-Lys-Pro-Val-Glu-Nval-Trp-Arg-Lys (DNP)-NH ₂ and the IC ₅₀ value is < 15 nM. |
| Appearance | Solution. |
| Formulation | Supplied as a 0.22 µm filtered solution of PBS, pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | N/A. |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice. |

DESCRIPTION

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| 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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