

HAI-2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76964
Synonyms:	Kunitz-Type Protease Inhibitor 2; Placental Bikunin; SPINT2; HAI2; KOP
Species:	Mouse
Source:	HEK293
Accession:	Q9WU03-2 /NP_001076017.1 (A28-K140)
Gene ID:	20733
Molecular Weight:	Approximately 19-22 kDa due to the glycosylation

PROPERTIES

AA Sequence	<p>A S R E L D V H E N T T D D M A R N R N G A D S S V L S V P R K Q S A E D L S A</p> <p>E I F N Y E E Y C V P K A V T G P C R A A F P R W Y Y D T E K N S C I S F I Y G</p> <p>G C R G N K N S Y L S Q E A C M Q H C S G K Q M H P F L T P G L K</p>
Biological Activity	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH ₂ . The IC ₅₀ value is 1.822 nM, as measured under the described conditions.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	HAI-2 Protein acts as an inhibitor of several proteins, including HGFAC, plasmin, and plasma and tissue kallikrein, thereby regulating their activity. It also inhibits the serine protease activity of TMPRSS13 and ST14/matriptase in vitro. HAI-2 Protein interacts with TMPRSS13, promoting its phosphorylation and facilitating its localization to the cell membrane.
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Caution: Product has not been fully validated for medical applications. For research use only.

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