

HAI-2 Protein, Human (HEK293, His)

Cat. No.:	HY-P70202
Synonyms:	rHuKunitz-type protease inhibitor 2/HAI-2, His; Kunitz-Type Protease Inhibitor 2; Hepatocyte Growth Factor Activator Inhibitor Type 2; HAI-2; Placental Bikunin; SPINT2; HAI2; KOP
Species:	Human
Source:	HEK293
Accession:	O43291 (A28-K197)
Gene ID:	10653
Molecular Weight:	24-30 kDa

PROPERTIES

AA Sequence	<p> A D R E R S I H D F C L V S K V V G R C R A S M P R W W Y N V T D G S C Q L F V Y G G C D G N S N N Y L T K E E C L K K C A T V T E N A T G D L A T S R N A A D S S V P S A P R R Q D S E D H S S D M F N Y E E Y C T A N A V T G P C R A S F P R W Y F D V E R N S C N N F I Y G G C R G N K N S Y R S E E A C M L R C F R Q Q E N P P L P L G S K </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 8.0.
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	<p>HAI-2, a versatile protein with a multifaceted inhibitory role, emerges as a potent regulator in diverse cellular processes. Its inhibitory prowess extends to HGFAC, acting as a robust sentinel against its activities. Beyond this, HAI-2 demonstrates proficiency in inhibiting plasmin, as well as plasma and tissue kallikrein, highlighting its broad-spectrum inhibitory capabilities. Notably, HAI-2 is a key modulator of serine protease activities, curtailing the functions of TMPRSS13 and ST14/matriptase in vitro. The intricate dance of molecular interactions includes a direct engagement with TMPRSS13, orchestrating an interplay that not only inhibits but also facilitates the phosphorylation and cellular localization of this serine protease. In essence, HAI-2 emerges as a versatile guardian, intricately navigating the cellular landscape to fine-tune</p>
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serine protease activities and maintain a delicate balance in various physiological contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

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