

**Recombinant Human Plasminogen
Activator Inhibitor-2
(rHuPAI-2)
PrimeGene Technical Data Sheet**

Catalog Number:	402-04
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 46.6 kDa, a single non-glycosylated polypeptide chain containing 415 amino acids.
Quantity:	2µg/10µg/1000µg
AA Sequence:	MEDLCVANTL FALNLFKHLA KASPTQNLFL SPWSISSTMA MVYMGSRGST EDQMAKVLQF NEVGANAVTP MTPENFTSCG FMQQIQKGSY PDAILQAQAA DKIHSSFRSL SSAINASTGN YLLESVNKLF GEKSASFREE YIRLCQKYYS SEPQAVDFLE CAEEARKKIN SWVKTQTKGK IPNLLPEGSV DGDTRMVLVN AVYFKGKWKTPFEKLNGLY PFRVNSAQRTPVQMMYLREK LNIGYIEDLK AQILELPYAG DVSMFLLLPD EIADVSTGLE LLESEITYDK LNKWTSKDKM AEDEVEVYIP QFKLEEHYEL RSILRSMGME DAFNKGRANF SGMSEKNDLF LSEVFHQAMV DVNEEGTEAA AGTGGVMTGR TGHGGPQFVA DHPFLFLIMH KITNCILFFG RFSSP
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The biological activity was determined by its inhibitory effect against single chain tPA induced cleavage of a chromogenic substrate in Imidazole Buffer at 37 °C. Half maximal inhibition against 1.0 µg/ml of single chain tPA was at a concentration of 1.0 µg/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1 mM Cysteine, with 5 % Trehalose.
Endotoxin:	Less than 0.1 EU/µg of rHuPAI-2 as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Human Plasminogen Activator Inhibitor-2

PAI-2 is an inhibitory serpin expressed mainly in keratinocytes, activated monocytes, and placental trophoblasts. It exists predominantly as a 47 kDa non-glycosylated intracellular protein which can be induced to be secreted as 60 kDa glycoprotein. The glycosylated and unglycosylated forms of PAI-2 are equally effective as inhibitors of urokinase-type plasminogen activator (uPA), the only established physiological target of this serpin.