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## Product Data Sheet

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Product Name: SERPINB8 Human

Cat. No.: GP24544

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CAP2; PI8; Serpin B8; Cytoplasmic antiproteinase 2; Peptidaseinhibitor 8; CAP-2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMDDLCEA NGTFAISLFK ILGEEDNSRN VFFSPMSISS ALAMVFMGAKGSTAAQMSQA LCLYKDGDH RGFQSSLSEV NRTGTQYLLR TANRLFGEKT CDFLPDFKEY CQKFYQAELEELSFAEDTEE CRKHINDWVA EKTEGKISEV LDAGTVDPLT KLVLVNAIYF KGKWNEQFDR KYTRGMLFKTNEEKKTVM FKEAKFKMGY ADEVHTQVLE LPYVEEELSM VILLPDDNTD LAVVEKALTY EKFKAWTNSEKLT KSKVQVF LPRLKLEESY DLEPFLRRLG MIDAFDEAKA DFSGMSTEN VPLSKVAHKC FVEVNEEGTEAAAATAVVRN SRCSRMEPRF CADHPFLFFI RHHKTNCILF CGRFSSP.		
Formulation	SERPINB8 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 30% glycerol and 1mM DTT.		

**Introduction**

Serpin Peptidase Inhibitor, Clade B Member 8 (SERPINB8) belongs to the ov-serpin subfamily, which, compared with the archetypal serpin PI1, is characterized by a high degree of homology to chicken ovalbumin, absence of N- and C-terminal extensions, lack of a signal peptide, and a serine instead of an asparagine residue at the penultimate position. The superfamily of high molecular weight serine proteinase inhibitors (serpins) control various intracellular and extracellular processes such as complement activation, fibrinolysis, coagulation, cellular differentiation, tumor suppression, apoptosis, and cell migration.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SERPINB8 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 397 amino acids (1-374 a.a) and having a molecular mass of 45.2kDa. SERPINB8 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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