



Catalog Number: PR27203

Product Type: Recombinant Protein

Source: *E. Coli*

Amino Acid Sequence: MGSSHHHHHH SSSLVPRGSH MGPVPTPPDN IQVQENFNIS RIYGKWNLA IGSTCPWLKK
IMDRMTVSTL VLGEGATEAE ISMTSTRWRK GVCEETSGAY EKTDTDGKFL YHKSQWNITM
ESYVVHTNYD EYAIFLTCKF SRHHGPTITA KLYGRAPQLR ETLQDFRVV AQGVGIPEDS
IFTMADRGEV VPGEQEPEPI LIPRV.

Description/Molecular Mass: Alpha 1-microglobulin (A1M) is a lipocalin superfamily member (kernal lipocalins). A1M might be involved in tissue defense against reactive oxygen species, oxidation by heme and kynurenin. Evidence also suggests that A1M functions in the regulation of the immune system. Other functions include inhibition of stimulation of cultured lymphocytes by protein antigens; induction of cell division of lymphocytes, a mitogenic effect that can either be enhanced or inhibited by the action of other plasma components; inhibition of neutrophil granulocyte migration *in vitro*; and inhibition of chemotaxis.

AMBP Human Recombinant produced in *E.coli* is a single, non-glycosylated polypeptide chain containing 205 amino acids (20-203) and having a molecular mass of 23.1 kDa.

AMBP is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Purity: Greater than 90.0% as determined by:
(a) Analysis by SDS-PAGE.

Format: The AMBP solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 10% glycerol.

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

FOR RESEARCH USE ONLY

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