

## AZGP1

### Native Human Alpha-2-Glycoprotein 1, Zinc-Binding

<b>Catalog No.</b>	CRA425A	<b>Quantity:</b>	1 µg
	CRA425B		5 µg
	CRA425C		50 µg

**Alternate Names:** AZGP1, ZA2G, ZAG, Zn-alpha-2-GP

**Description:** Zinc-alpha-2-glycoprotein (ZAG) protein stimulates lipid degradation in adipocytes and causes the massive fat losses linked with various advanced cancers. ZAG may bind polyunsaturated fatty acids. It is identical in amino acid sequence to tumor-derived lipid mobilizing factor (LMF), a protein associated with the dramatic loss of adipose body stores in cancer cachexia, and has been shown to stimulate lipolysis by adipocytes in vivo and in vitro. A role for ZAG has been proposed in the regulation of body weight, and age-dependent changes in genetically influenced obesity, and also it regulates melanin production by normal and malignant melanocytes. It has also recently been classified as a novel adipokine in that it is produced by both white and brown fat adipocytes and may act in a local autocrine fashion in the reduction of adiposity in cachexia. Controlling ZAG/LMF's activity could be life-saving in the management of certain cancers and other cachexia-inducing conditions, and its possible normal role in body fat store homeostasis.

**Gene ID:** 563

**UniProtKB:** P25311

**Source:** Human serum.

**Molecular Weight:** 32.14 kDa, 278 amino acids

**Formulation:** Lyophilized from 0.4 µm filtered, 0.5 mg/ml solution of 20 mM Tris-HCl, 50mM NaCl, pH 8.0

**Purity:** >80% by SDS-PAGE.

**Amino Acid Sequence:** QENQDGRYSL TYIYTGLSKH VEDVPAFQAL GSLNDLQFFR YNSKDRKSQP  
MGLWRQVEGM EDWKQDSQLQ KAREDIFMET LKDIVEYYND SNGSHVLQGR  
FGCEIENNRS SGAFWKYYYD GKDYIEFNKE IPAWVPFDPA AQITKQKWEA  
EPVYVQRAKA YLEEECPATL RKYLKYSKNI LDRQDPPSVV VTSHQAPGEK  
KKLKCLAYDF YPGKIDVHWT RAGEVQEPEL RGDVLHNGNG TYQSWVVAV  
PPQDTAPYSC HVQHSSLAQP LVVPWEAS



**Reconstitution:** Centrifuge vial to completely recover product. Add deionized water for a concentration of 0.5 mg/ml, allow a few minutes, gently pipet to mix. Sterile filter before using in cell culture with appropriate low binding membrane. **Do not vortex.**

**Storage & Stability:** Store lyophilized protein at 2-8°C for up to 2 weeks for shipping purposes, and -20°C to -80°C for up to 1 year. Once reconstituted, it is stable for several weeks at 2-8°C.

**Note:** Blood samples from each donor have been tested and found negative for HBsAg, anti-HCV, HIV Ag/Ab and syphilis.

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