

Zinc-alpha 2 glycoprotein Human Recombinant

Item Number	rAP-5092
Synonyms	Zn-alpha-2-glycoprotein, Zn-alpha-2-GP, AZGP1, ZAG, Zinc-alpha-2-glycoprotein, ZNGP1, ZA2G.
Description	ZA2G Human Recombinant produced in HEK cells is a single, glycosylated polypeptide chain containing a total of 290 amino acids encoding (13-290). ZA2G Human Recombinant is identical to Swiss-Prot-P25311 (AA 18-295, mature Zinc-Alpha-2-Glycoprotein). Twelve extra amino acids were fused with the N-terminus.
Uniprot Accession Number	P25311
Amino Acid Sequence	ASWSHPQFEK GSQENQDGRY SLTYIYTGLS KHVEDVPAFQ ALGSLNDLQF FRYNSKDRKS QPMGLWRQVEGMEDWKQDSQ LQKAREDFIM ETLKDIVEYY NDSNGSHVLQ GRFGCEIENN RSSGAFWKYY YDGKDYIEFNKEIPAWVVPFD PAAQITKQKW EAEPVYVQRA KAYLEEECPA TLRKYLKYSK NILDRQDPPS VVVTSHQAPG EKKKLLCLAYDFYPGKIDVH WTRAGEVQEP ELRGDVLHNG NGTYQSWVVV AVPPQDTAPY SCHVQHSSLA QPLVVPWEAS.
Source	293 Cell Line (Human Embryonic Kidney).
Physical Appearance and Stability	Filtered White lyophilized (freeze-dried) powder. Lyophilized ZA2G although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution ZA2G should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.
Formulation and Purity	Filtered (0.4 µm) and lyophilized in 0.5 mg/ml in 0.1M Tris-HCl pH 8.0 and 150mM NaCl. Greater than 90.0% as determined by:(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	Add deionized water to a working concentration approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely.
Biological Activity	Differentiated human SGBS adipocytes were incubated for 18 h at two dose levels of rhZA2G - 5 and 20 µg/ml. Lipolysis was quantified by measuring glycerol release into the medium using a standard protocol. Isoproterenol (10 µM) and IBMX (100 µM) were used
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**