Human AZGP1 Recombinant Protein

RPPB2832

Product Information

Product SKU:
RPPB2832

Accession:
P25311

Host:
293 Cell Line (Human Embryonic Kidney).

Protein Information

Protein 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.

Appearance:
Filtered White lyophilized (freeze-dried) powder.

Synonyms:
Zn-alpha-2-glycoprotein, Zn-alpha-2-GP, AZGP1, ZAG, Zinc-alpha-2-glycoprotein, ZNGP1, ZA2G.

Formulation:
Filtered (0.4 µm) and lyophilized in 0.5 mg/ml in 0.1M Tris-HCl pH 8.0 and 150mM NaCl.

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

Solubility:
Add deionized water to a working concentration approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely.

Stability:
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.

Amino Acid Sequence:
ASWSHPQFEK GSQENQDGRY SLTYIYTGLS KHVEDVPAFQ ALGSLNDLQF FRYNSKDRKS QPMGLWRQVEGMEDWKQDSQ LQKAREDIFM ETLKDIVEYY NDSNGSHVLQ GRFGCEIENN RSSGAFWKYY YDGKDYIEFNKEIPAWVPFD PAAQITKQKW EAEPVYVQRA KAYLEEECPA TLRKYLKYSK NILDRQDPPS VVVTSHQAPG EKKKLKCLAYDFYPGKIDVH WTRAGEVQEP ELRGDVLHNG NGTYQSWVVV AVPPQDTAPY SCHVQHSSLA QPLVVPWEAS.

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 as positive controls. "Con" stands for the negative control. There was a 3-fold increase in glycerol release with both doses. The increase was statistically significant at 5 µg/ml dose of rhZA2G ($p<0.01$) as well as in positive controls.