AG-2 Protein, Human (HEK293, C-His)

Cat. No.:	HY-P7465A
Synonyms:	rHuAG-2, His; HPC8; AGR2; AG2
Species:	Human
Source:	HEK293
Accession:	O95994 (R21-L175)
Gene ID:	10551
Molecular Weight:	Approximately 20 kDa

PROPERTIES

AA Sequence	R D T T V K P G A K K D T K D S R P K L P Q T L S R G W G D Q L I W T Q T Y E E A L Y K S K T S N K P L M I I H H L D E C P H S Q A L K K V F A E N K E I Q K L A E Q F V L L N L V Y E T T D K H L S P D G Q Y V P R I M F V D P S L T V R A D I T G R Y S N R L Y A Y E P A D T A L L L D N M K K A L K L L K T E L
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of PC-3 human prostate cancer cells. The ED_{50} for this effect is 1.963 μg/mL, corresponding to a specific activity is 509.424 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	AG-2 protein is essential for the post-transcriptional synthesis and secretion of MUC2, suggesting a potential involvement in mucus production by intestinal cells. Beyond its role in mucin regulation, AG-2 emerges as a proto-oncogene, exerting influence on cell migration, differentiation, and growth. Notably, AG-2 promotes cell adhesion, underscoring its multifaceted contributions to cellular processes. Structurally, AG-2 exists as both a monomer and a homodimer. Additionally, it interacts with LYPD3 and DAG1 (alphaDAG1), forming complexes that may further modulate its functions. The

interaction with MUC2, characterized by disulfide linkages, highlights the intricate molecular relationships AG-2 establishes within the cellular milieu.

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