

## AGR3 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P7466
<b>Synonyms:</b>	rHuAG-3, His; HAG-3; AGR3; AG3; Anterior gradient protein 3
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q8TD06 (I22-L166)
<b>Gene ID:</b>	155465
<b>Molecular Weight:</b>	Approximately 16.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>I A I K K E K R P P    Q T L S R G W G D D    I T W V Q T Y E E G    L F Y A Q K S K K P</p> <p>L M V I H H L E D C    Q Y S Q A L K K V F    A Q N E E I Q E M A    Q N K F I M L N L M</p> <p>H E T T D K N L S P    D G Q Y V P R I M F    V D P S L T V R A D    I A G R Y S N R L Y</p> <p>T Y E P R D L P L L    I E N M K K A L R L    I Q S E L H H H H H    H</p>
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized after extensive dialysis against 20 mM Tris-HCl, 150 mM NaCl, 2 mM EDTA, pH 8.5 or 20 mM Glycine-HCl, 10% Trehalose, 0.05% Tween80, pH 3.5.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>AGR3 (Anterior gradient 3; AG-3), a member of the protein disulfide isomerase (PDI) family, shares high sequence homology with AG-2. AGR3 is overexpressed in breast, prostate and ovarian cancer. Combined AGR3 and acid mucopolysaccharides could serve as a diagnostic marker for well-differentiated intrahepatic cholangiocarcinoma. AGR3 expression was correlated with the level of differentiation in the serous type of ovarian cancer. AGR3 activates Wnt/β-catenin signalling and promotes the nuclear translocation of β-catenin to upregulate stemness related genes<sup>[1]</sup>.</p>
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## REFERENCES

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[1]. Chi J, et al. AGR3 promotes the stemness of colorectal cancer via modulating Wnt/ $\beta$ -catenin signalling. Cell Signal. 2020 Jan;65:109419.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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