AGR3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7468
Synonyms:	rMuAgr3, His; Agr3; Anterior gradient protein 3
Species:	Mouse
Source:	HEK293
Accession:	Q8R3W7 (I21-L165)
Gene ID:	403205
Molecular Weight:	Approximately 16-18 kDa

PROPERTIES

AA Sequence	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 H A R K S N K P L M V I H H L E D C Q Y C Q A L K K E F A K N E E I Q E M A Q N D F I M L N L M 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 T G R Y S N R L Y T Y E P Q D L P M L V D N M K K A L R L I Q S E L H H H H H H
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filter solution of 20 mM Tris, 100 mM NaCl, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Anterior gradient protein 3 (AGR3) is a homologue of the pro-oncogenic AGR2. AGR3 and AGR2 share a 71% sequence identity and lie adjacent to one another at chromosomal position 7p2. Functionally, they belong to the protein disulfide isomerases (PDIs) family, which act as endoplasmic reticulum (ER)-resident molecular foldases involved in the maintenance of cellular homeostasis. AGR3 is an ER resident protein, which is required for the regulation of ciliary beat frequency and mucociliary clearance in the airway epithelium. AGR3 was shown to interact with dystroglycan-1 (DAG-1) and metastasis-associated C4.4A protein, indicating its potential as a driver of metastasis. AGR3 is a potential promising target for anti-tumor therapy. Elevated AGR3 expression levels were reported in some cancer types, including breast, liver, prostate and ovary[1].

REFERENCES

[1]. Obacz J, et al. Extracellular AGR3 regulates breast cancer cells migration via Src signaling. Oncol Lett. 2019 Nov;18(5):4449-4456.

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