

Recombinant Human AGR2 Protein (His Tag)

Catalog No. PKSH032079

Note: Centrifuge before opening to ensure complete recovery of vial contents.

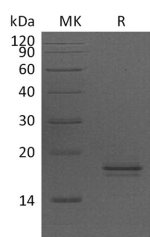
Description

Synonyms	Anterior Gradient Protein 2 Homolog;AG-2;hAG-2;HPC8;Secreted Cement Gland Protein XAG-2 Homolog;AGR2;AG2
Species	Human
Expression Host	HEK293 Cells
Sequence	Arg21-Leu175
Accession	O95994
Calculated Molecular Weight	18.9 kDa
Observed molecular weight	18 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 200mM NaCl, 10%Glycerol, 0.01%Tween80, pH8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Anterior Gradient 2 (AGR2) is an 18-21 kDa member of the PDI family of enzymes. AGR2 is widely expressed in secretory cells, such as small intestine goblet, prostate epithelium, enteroendocrine cells, and multiple carcinoma cell types. AGR2 forms transient disulfide linkages with molecules destined for secretion, possibly aiding protein folding. Expression of AGR2 shows a positive correlation with expression of estrogen receptor in breast carcinoma and a negative

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correlation with expression of EGF receptor. Mature human AGR2 is 155 amino acids (aa) in length (aa 21 - 175). Cys81 is presumed to participate in intermolecular bond formation. Over aa 21 - 175, human AGR2 shares 94% aa identity with mouse AGR2.