

## AGR3 Protein, Human, Recombinant (mFc)

### General Information

Synonyms:	hAG-3;AG3;HAG3;anterior gradient 3;PDIA18;BCMP11;AG-3
Protein Construction:	A DNA sequence encoding the human AGR3 (NP_789783.1) (Met1-Leu166) was expressed with the Fc region of mouse IgG1 at the C-terminus. Predicted N terminal: Ile 22
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8TD06
Molecular Weight:	43.4 kDa (predicted)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Anterior gradient protein (AGR) 3 is a highly related homologue of pro-oncogenic AGR2 and belongs to the family of protein disulfide isomerases. AGR3 was found in breast, ovary, prostate, and liver cancer, it is associated with the level of differentiation, slowly proliferating tumors, and more favorable prognosis of breast cancer patients. AGR3 is a specialized member of the PDI family that plays an unexpected role in the regulation of CBF and mucociliary clearance in the airway. AGR3 had been characterised as a novel potential biomarker both for breast

cancer prognosis and early breast cancer detection from blood.

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