

## ANTXR2 Protein, Human, Recombinant (hFc)

### General Information

Synonyms:	HFS;JHF;anthrax toxin receptor 2;ISH;CMG-2;CMG2
Protein Construction:	A DNA sequence encoding the human ANTXR2 (NP_477520.2) (Met1-Asn317) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Gln 34
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P58335-4
Molecular Weight:	57.4 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/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm 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

Loss-of-function mutations in capillary morphogenesis gene 2 (CMG2/ANTXR2), a transmembrane surface protein, cause hyaline fibromatosis syndrome (HFS), a severe genetic disorder that is characterized by large subcutaneous nodules, gingival hypertrophy and severe painful joint contracture. Anthrax toxin causes anthrax pathogenesis and expression levels of ANTXR2 (anthrax toxin receptor 2) are strongly correlated with anthrax toxin susceptibility. A recent genome-wide association study or GWAS identified that anthrax toxin receptor 2 (ANTXR2)

was one of the risk loci for ankylosing spondylitis (AS). Previous study also showed that ANTXR2 could potentially affect new bone formation. This study aimed to investigate the possible mechanisms of ANTXR2 involved in AS pathogenesis.

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