

Product Data Sheet

CMG-2/ANTXR2 Protein, Mouse (HEK293, His)

| Cat. No.: | HY-P76153 |
|-------------------|---|
| Synonyms: | Anthrax toxin receptor 2; Capillary morphogenesis gene 2 protein; CMG-2; ANTXR2 |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | Q6DFX2 (Q32-G318) |
| Gene ID: | 71914 |
| Molecular Weight: | Approximately 32 kDa. |

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| PROPERTIES | |
|---------------------|--|
| AA Sequence | QAQEQPSCKKAFDLYFVLDKSGSVANNWIEIYNFVHQLTERFVSPEMRLSFIVFSSQATIILPLTGDRYKIGKGLEDLKAVKPVGETYIHEGLKLANEQIQNAGGLKASSIIIALTDGKLDGLVPSYAENEAKKSRSLGASVYCVGVLDFEQAQLERIADSKDQVFPVKGGFQALKGIINSILAQSCTEILELSPSSVCVGEKFQVVLTGRAVTSISHDGSVLCTFTANSTYTKSEKPVSIQPSSILCPAPVLNKDGETLEVSISYNDGKSAVSRSLTIT |
| Biological Activity | Measured by its binding ability in a functional ELISA. Immobilized anthrax protective antigen (PA) at 1.5 μg/mL can bind Mouse CMG-2. The ED ₅₀ for this effect is 1.329 μg/mL. |
| Appearance | Lyophilized powder |
| Formulation | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconsititution | It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| Storage & Stability | 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. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

Background

CMG-2/ANTXR2 protein is indispensable for cellular interactions with laminin and the extracellular matrix, indicating its

pivotal role in mediating adhesion and communication between cells and their surrounding environment. This protein exhibits a specific binding affinity for laminin, emphasizing its involvement in the regulation of laminin-dependent cellular processes. Furthermore, there is a suggestion of potential interaction with collagen type IV, broadening its scope of engagement with key components of the extracellular matrix. The capacity of CMG-2/ANTXR2 to bind to laminin and possibly collagen type IV underscores its significance in cellular adhesion and matrix-related functions, contributing to the intricate framework of cellular interactions within tissues.

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

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