# ARG70510
# Human Angiopoietin 2 recombinant protein (His-tagged)

Package: 100 µg
Store at: -20°C

## Summary

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| Product Description | CHO expressed, His-tagged Human Angiopoietin 2 recombinant protein. |
| Tested Application | SDS-PAGE |
| Target Name | Angiopoietin 2 |
| Species | Human |
| A.A. Sequence | Met1-Phe496 |
| Expression System | CHO |
| Alternate Names | ANGPT2; Angiopoietin 2; Ang2; Angiopoietin-2; Angiopoietin-2B; Angiopoietin-2a; Tie2-Ligand; LMPHM10; AGPT2; ANG-2 |

## Properties

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| Form | Powder |
| Purification | >90% (by SDS-PAGE) |
| Purification Note | Endotoxin level is less than 0.1 EU/µg of the protein, as determined by the LAL test. |
| Buffer | PBS (pH 7.4) |
| Reconstitution | It is recommended to reconstitute the lyophilized protein in 4 mM HCl to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely. |
| Storage instruction | For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

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| Gene Symbol | ANGPT2 |
| Gene Full Name | Angiopoietin 2 |
| Background | This gene belongs to the angiopoietin family of growth factors. The protein encoded by this gene is an antagonist of angiopoietin 1, and both angiopoietin 1 and angiopoietin 2 are ligands for the endothelial TEK receptor tyrosine kinase. Angiopoietin 2 is upregulated in multiple inflammatory diseases and is implicated in the direct control of inflammation-related signaling pathways. The encoded protein affects angiogenesis during embryogenesis and tumorigenesis, disrupts the vascular remodeling ability of angiopoietin 1, and may induce endothelial cell apoptosis. This gene serves a prognostic biomarker for acute respiratory distress syndrome. [provided by RefSeq, Aug 2020] |
| Function | In the absence of angiogenic inducers, such as VEGF, ANGPT2-mediated loosening of cell-matrix contacts may induce endothelial cell apoptosis with consequent vascular regression. In concert with VEGF, it may facilitate endothelial cell migration and proliferation, thus serving as a permissive angiogenic signal. [UniProt] |