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Human Angiopoietin-2 (Ang2)

Catalog #: 91007
Lot #: 141103

Description: Recombinant human angiopoietin-2 (Ang2), also known as Angpt2, expressed in HEK293 cells. Human Ang2 is a 70 kDa secreted ligand that binds the receptor Tie2.

Source: Optimized DNA sequence encoding the extracellular domain of human Ang2, including a C-terminal His tag expressed in HEK293 cells.

Formulation: Recombinant human Ang2 is lyophilized from 0.2 μ m filtered 20 mM PBS solution, pH 7.2, 5% Trehalose.

Reconstitution: Briefly centrifuge the vial, followed by reconstitution in distilled water to a concentration of ≥ 0.1 mg/ml. This solution can then be further diluted into other buffers containing carrier protein (0.1% BSA).

Storage: The lyophilized protein is stable for at least 1 year from date of receipt when stored at -20°C to -80°C . Upon reconstitution, store in working aliquots at $2 - 8^{\circ}\text{C}$ for up to one month, or at -20°C for up to six months, in the presence of a carrier protein. Avoid repeated freeze/thaw cycles.

Purity: $>97\%$, as determined by SDS-PAGE and HPLC.

Endotoxin Level: Endotoxin level was found to be < 0.1 ng/ μ g (1EU/ μ g), using the LAL gel clot method.

Biologic Activity: The activity was tested by the ability of immobilized recombinant Human Tie2 to bind biotinylated recombinant human Ang2 in ELISA.

References:

1. *Circ. Res.* 2013; **113**: 1331-1344
2. *Science.* 2014; **343**: 1639-1646.

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