

# Recombinant Human Placenta Growth Factor-1 (PLGF-1)








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

Rev. 1.00

<b>Catalog Number:</b>	PHG0296
<b>Quantity:</b>	25 µg
<b>Lot Number:</b>	See product label.
<b>Molecular Weight:</b>	29.7 kDa disulfide-linked homodimer. Each subunit contains 131 amino acid residues.
<b>Purity:</b>	≥95% by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	The biological activity was determined by measuring dose-dependent chemotaxis with human monocytes. Concentrations ranging from 1.0–10 ng/mL were found to be effective for this application.
<b>Formulation:</b>	Lyophilized from 10 mM sodium phosphate, pH 7.5. Sterile filtered through a 0.2 micron filter prior to lyophilization.
<b>Endotoxin:</b>	<0.1 ng/µg
<b>Production:</b>	Produced in <i>E. coli</i> and purified by sequential chromatography.
<b>Reconstitution Recommendation:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile, distilled water, to a concentration of 0.1–1.0 mg/mL. <i>Do not vortex</i> . This solution can be stored at 2°C to 8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein, such as 0.1% BSA and store in working aliquots at –20°C to –80°C.
<b>Suggested Working Dilutions:</b>	The optimal concentration should be determined for each specific application.
<b>Storage:</b>	The lyophilized protein is stable at room temperature for 1 month, but should be kept at –20°C for long term storage. Working aliquots stored with a carrier protein are stable for at least 3 months at –20°C to –80°C. Avoid repeated freeze/thaw cycles.
<b>Expiration Date:</b>	See product label.
<b>References:</b>	Maglione, D., et al. (1991) Isolation of a human placenta cDNA coding for a protein related to the vascular permeability factor. <i>Proc. Nat'l. Acad. Sci.</i> 88:9267–271. De Falco, S., et al. (2002) Structure and function of placental growth factor. <i>Trends Cardiovasc. Med.</i> 12(6):241-246. Hauser, S., and H.A. Weich (1993) A heparin-binding form of placenta growth factor (PlGF-2) is expressed in human umbilical vein endothelial cells and in placenta. <i>Growth Factors</i> 9(4):259–268. Errico, M., et al. (2004) Identification of placenta growth factor determinants for binding and activation of Flt-1 receptor. <i>J. Biol. Chem.</i> 279(49):43929–43939.

## Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
	Catalog Number
	Research Use Only
	Use by
	Manufacturer
	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
	Batch code
	In vitro diagnostic medical device
	Temperature limitation
	European Community authorized representative
	With, contains
	Consult accompanying documents

### Limited Use Label License: Research Use Only

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