

# Recombinant Human Placenta Growth Factor-2 (rh PLGF-2)

**Synonyms:** PGF-2

**Introduction:** PLGF is a growth factor active in angiogenesis, and endothelial cell growth, stimulating their proliferation and migration. It binds to receptor vegfr-1/flt1.  
PLGF-2 binds neuropilin-1 and 2 in a dependent manner.

**Description:** Placenta Growth Factor-2 Human Recombinant produced in insect cells is a homodimer, glycosylated polypeptide chain containing 2 x 152 amino acids and having a total molecular mass of 44 kDa. The PLGF-2 is purified by proprietary chromatographic techniques.

**Source:** *Insect Cells*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a concentrated solution containing BSA.  
The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized PLGF-2 in sterile 20mM acetic acid not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rh PLGF-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rh PLGF-2 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Purity:** Greater than 80.0% as determined by RP-HPLC and by SDS-PAGE.

**Biological Activity:** Recombinant human PLGF-2 can bind to immobilized rh-sFlt-1 (100ng/well) with a linear range at 0.3 – 10 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11344312
<i>medium</i>	10 µg	Cat.N°	11344313
<i>large</i>	50 µg	Cat.N°	11344315

**ImmunoTools** Excellent Quality - Advantageously priced

Gladiolenweg 2; 26169 Friesoythe; Germany  
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, [info@immunotools.com](mailto:info@immunotools.com)  
[www.immunotools.com](http://www.immunotools.com)