

**Recombinant Human  
PDGFbb (Platelet-Derived Growth Factor bb)**

Catalog # (Size):    HZ-1308 (10µg)    HZ-1309 (100µg)    HZ-1310 (1000µg)

**Product Description**

- Endotoxin-free
- Animal-derived product free
- Lyophilized and Carrier Free (CF)
- High Stability

PDGFbb is a growth factor that promotes blood vessel formation, mitogenesis, chemotaxis, etc. The PDGF family members (four homodimers and one heterodimer) are secreted, disulfide-linked dimeric glycoproteins that regulate their cellular functions through interaction with PDGFR ( $\alpha$  and  $\beta$ ) receptors. PDGFbb is synthesized, stored, and released by alpha granules of platelets. It is also known as PDGF-2, becapermin, or GDGF. Dysregulation in PDGF signaling has been shown to be associated with tumorigenesis and progression of cancer. Recombinant PDGFbb is used in treatment of chronic ulcers and to speed healing in surgical procedures.

**Typical Specifications**

<b>Species</b>	Human
<b>Expression</b>	HEK293 Cell Expressed
<b>Activity</b>	Typically $\leq 3$ ng/mL EC <sub>50</sub>
<b>Purity</b>	>95%
<b>Endotoxin</b>	<1 EU/µg
<b>Molecular Mass</b>	29 to 32 kDa, homodimer, glycosylated
<b>Formulation</b>	50mM Acetate pH 3.5 + 500mM NaCl

**Purity Confirmation**

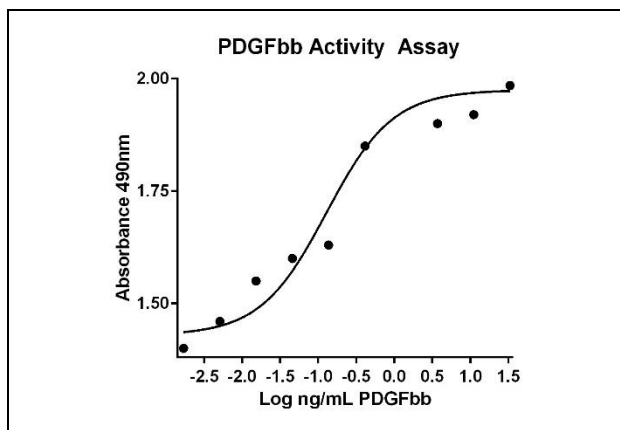
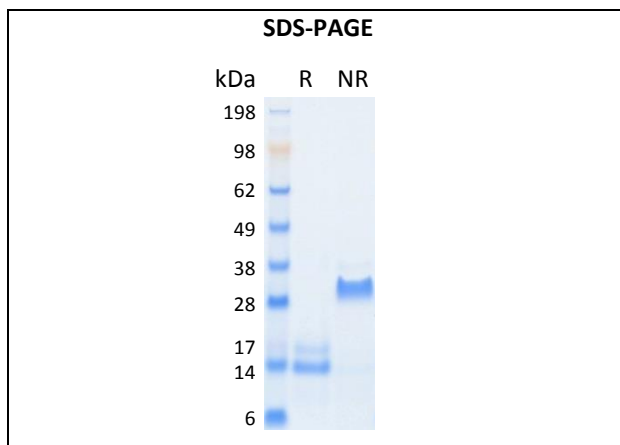
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

**Activity Assay**

The activity was determined by the dose-dependent stimulation of the proliferation of 3T3 cells.



All HumaXpress® HumanKine™ are animal-component-free and Xeno-free™



**Reconstitution Buffer**

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 10mM HOAc containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

**Reference**

1. Chen, M.H. et al. (2004) Genes and Dev. 18(6) 641-59
2. Nakamura, T. et al. (1997) Biochem. Biophys. Res. Commun. 237:465

Limited Use and Restrictions Unless otherwise stated in our catalog or other company documentation accompanying the products sold by HumanZyme Inc. are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, including resale or use in manufacture, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.