

Product Data Sheet

PDGF-BB Protein, Human (P.pastoris, His)

| Cat. No.: | HY-P73351 |
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| Synonyms: | Platelet-derived growth factor subunit B; PDGF subunit B; PDGF2; PDGFB; SIS |
| Species: | Human |
| Source: | P. pastoris |
| Accession: | P01127 (S82-T190) |
| Gene ID: | 5155 |
| Molecular Weight: | Approximately 14.3 kDa |

| DDODEDTIEC | |
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| PROPERTIES | |
| Biological Activity | Measured by its binding ability in a functional ELISA. Immobilized Human PDGF-B His at 2 μg/mL (100 μl/well) can bind Human PDGFRBHis & hFc, the EC ₅₀ of Human PDGFRBHis & hFc is 9.0-40.0 ng/mL. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 μm filtered solution of PBS, 25% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconsititution | It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH_2O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |
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DESCRIPTION

| Background | GMP PDGF-BB Protein, a pivotal growth factor, assumes a central role in regulating embryonic development, cell |
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| | proliferation, migration, survival, and chemotaxis. Renowned for its potent mitogenic effects on mesenchymal cells, GMP |
| | PDGF-BB is indispensable for the normal proliferation and recruitment of pericytes and vascular smooth muscle cells in |
| | various tissues, including the central nervous system, skin, lung, heart, and placenta. Its vital contributions extend to the |
| | development of blood vessels and kidney glomeruli, highlighting its significance in vascular and renal physiology. A key |
| | participant in wound healing, GMP PDGF-BB's signaling dynamics are finely tuned through heterodimer formation with |
| | PDGFA. Present as an antiparallel homodimer, GMP PDGF-BB engages in disulfide-linked interactions with PDGFRA and |
| | PDGFRB homodimers, as well as with heterodimers formed by PDGFRA and PDGFRB. Additionally, it forms antiparallel |
| | heterodimers with PDGFA, further diversifying its regulatory repertoire. Notably, GMP PDGF-BB establishes connections with |
| | XLKD1, LRP1, and SORL1, contributing to a network of interactions that modulate its multifaceted functions. |

Caution: Product has not been fully validated for medical applications. For research use only.

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