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| Data Sheet | | | | | | | | |
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| Product Information | | | | | | | | |
| **Product Name** | | | **:** | **Recombinant human Platelet-Derived Growth Factor(rhPDGF-BB)** | | | | |
| **Synonyms** | | | **:** | SIS, SSV, PDGF2, c-sis, PDGF-BB. platelet derived growth factor subunit B | | | | |
| **Description** | | | **:** | PDGF-BB is a member of the platelet-derived growth factor family.. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha (PDGFA) polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 17, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor. (Ref. From Wikipedia) | | | | |
| **NCBI Accession No.** | | | **:** | NM\_002608.2 | | | | |
| **Amino acid sequence** | | | **:** | **SLGSLTIAEPAMIAECKTRTEVFEISRRLIDRTNANFLVWPPCVEVQRCSGCCNNRNVQCRPTQVQLRPVQVRKIEIVRKKPIFKKATVTLEDHLACKCETVAAARPVT\*** | | | | |
| **Molecular Mass** | | | **:** | 12.39 kDa (110 aa) | | | | |
| **Protein Tags** | | | **:** | No tagging | | | | |
| **Source** | | | **:** | *E. coli.* | | | | |
| **Cat. No.** | | | **:** | JW-H027-0010, JW-H027-0025, JW-027-0100, JW-H027-0250, JW-H027-0500, JW-H027-1000 | | | | |
| **Storage** | | | **:** | Should be at ≤ -70 ℃ as undiluted aliquots of handy size. Avoid repeated freezing and thawing. | | | | |
| **Cross Reactivity** | | | **:** | Rat, Mouse | | | | |
| Quality Control | | | | | | | |
| **Test items** |  | | | | **Specifications** | | |
| **Appearance** | | **:** | | | | Clear, colorless liquid | |
| **Purity** | | **:** | | | | Greater than 95 % by SDS-PAGE | |
| **Specificity** | | **:** | | | | Using Western blot, detection | Z:\신약연구팀\배일근(20151004)\업무-my\4. 활성시험\22년\220404 hPDGF-B R_ 2201 1801\hPDGF-B 2201 활성 G D.jpg |
| **Concentration** | | **:** | | | | 0.1 mg/㎖, Bradford method |
| **Biological Activity** | | **:** | | | | Determined by proliferation of HHDPC cells indicator cells. The ED50 is 1.0~6.0 ng/ml. |
| **Endotoxin** | | **:** | | | | Less than 0.1 EU/㎍ as determined by the LAL method | |
| **Formulation** | | **:** | | | | 100mM Sodium acetate, 10% Glycerol (pH 5.0) without preservative or carrier proteins. | |
| **Stability** | | **:** | | | | Stable for up to 12 months at -70 ℃. Stable for a month at 4 ℃. | |
| **Sterility** | | **:** | | | | Sterilized through a 0.2 ㎛ membrane filter and packaged aseptically. Culture for 2 weeks, no growth | |
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