

## Recombinant Human PTGER4 Protein, His&GST-tagged

Cat. No. PTGER4-1998H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Human PTGER4 Protein (Arg333-Ile488) with N-His&GST tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ProteinLength    | Arg333-Ile488                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Description      | <p>The protein encoded by this gene is a member of the G-protein coupled receptor family. This protein is one of four receptors identified for prostaglandin E2 (PGE2). This receptor can activate T-cell factor signaling. It has been shown to mediate PGE2 induced expression of early growth response 1 (EGR1), regulate the level and stability of cyclooxygenase-2 mRNA, and lead to the phosphorylation of glycogen synthase kinase-3. Knockout studies in mice suggest that this receptor may be involved in the neonatal adaptation of circulatory system, osteoporosis, as well as initiation of skin immune responses.</p> |
| Form             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Molecular Mass   | Predicted Molecular Mass: 46.6 kDa<br>Accurate Molecular Mass: 50 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Purity           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PTGER4 prostaglandin E receptor 4 [ Homo sapiens (human) ]                                                                                                                                                    |
| <b>Official Symbol</b> | PTGER4                                                                                                                                                                                                        |
| <b>Synonyms</b>        | PTGER4; prostaglandin E receptor 4; EP4; EP4R; prostaglandin E2 receptor EP4 subtype; PGE receptor, EP4 subtype; PGE2 receptor EP4 subtype; prostaglandin E receptor 4 (subtype EP4); prostanoid EP4 receptor |
| <b>Gene ID</b>         | 5734                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | NM_000958                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_000949                                                                                                                                                                                                     |
| <b>UniProt ID</b>      | P35408                                                                                                                                                                                                        |

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