

Recombinant Human PTGER4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTGER4-5572H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTGER4 MS Standard C13 and N15-labeled recombinant protein (NP_000949) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	53.1 kDa
AA Sequence	MSTPGVNSSASLSPDRLNSPVTIPAVMFIFGVVGNLVAIVVLCKSRKEQKETTFTLV CGLAVTDLLGLTLLVSPVTIATYMKGQWPGGQPLCEYSTFILLFFSLGSLIICAMSV YLAINHAYFYSHYVDKRLAGLTFAVYASNVLFCAIPNMGLGSSRLQYPDTWCFIDW TTNVTAAHAYSIMYAGFSSFLILATVLCNVLVCGALLRMHRQFMRRTSLGTEQHHA AAAASVASRGHPAASPALPRLSDFRRRRSFRRRIAGAEIQMVILLIATSLVVLICSIPLVV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RVFVNQLYQPSLEREVSKNPDLQAIRIASVNPILDPWIYILLRKTVLSKAIEKIKCLFCRI
 GGSRRERSGQHCSDSQRTSSAMSGHSRSFISRELKEISSTSQTLLPDLSLPDSEN
 GLGGRNLLPGVPGMGLAQEDTTSLRTLRISETSDSSQGQDSESVLLVDEAGGSGRA
 GPAPKGSSLQVTFPSETLNLSEKCITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PTGER4 prostaglandin E receptor 4 [Homo sapiens (human)]

Official Symbol PTGER4

Synonyms PTGER4; prostaglandin E receptor 4 (subtype EP4); prostaglandin E2 receptor EP4 subtype; EP4; prostanoid EP4 receptor; PGE receptor EP4 subtype; PGE receptor, EP4 subtype; PGE2 receptor EP4 subtype; EP4R; MGC126583;

Gene ID 5734

mRNA Refseq NM_000958

Protein Refseq NP_000949

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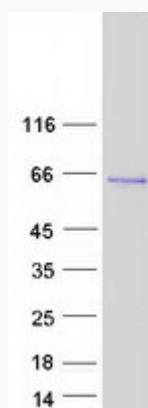
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MIM 601586

UniProt ID P35408

SDS-PAGE



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