

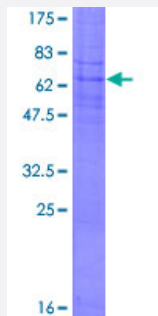
Full-Length

PTGER1 (Human) Recombinant Protein (P01)

Catalog # H00005731-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PTGER1 full-length ORF (NP_000946.2, 1 a.a. - 402 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSPCGPLNLSLAGEATTCAAPWVPNTSAVPPSGASPALPIFSMTLGAVSNLLALALLAQAAGRLLR
RRRSAATFLLFVASLLATDLAGHVIPGALVLRLYTAGRAPAGGACHFLGGCMVFFGLCPLLLGCG
MAVERCVGVTRPLLHAARVSVARARLALAAVAVALAVALLPLARVGRYELQYPGTWCFIGLGPP
GGWRQALLAGLFASLGLVALLAALVCNTLSGLALLRARWRRRSRRPPPASGPDSRRRWGAHGP
RSASASSASSIASASTFFGGSRSSGSARRARAHDEVEMVGGQLVGIMVSCICWSPMLVLVALAVG
GWSSTSLQRPLFLAVRLASWNQILDWPVYILLRQAVLRQLLRLLPPRAGAKGGPAGLGLTPSAWE
ASSLRSSRHSGLSHF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

68.2

Interspecies Antigen Sequence

Mouse (83); Rat (83)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PTGER1

Entrez GeneID	5731
GeneBank Accession#	NM_000955.2
Protein Accession#	NP_000946.2
Gene Name	PTGER1
Gene Alias	EP1
Gene Description	prostaglandin E receptor 1 (subtype EP1), 42kDa
Omim ID	176802
Gene Ontology	Hyperlink
Gene Summary	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). Through a phosphatidylinositol -calcium second messenger system, G-Q proteins mediate this receptor's activity. Knockout studies in mice suggested a role of this receptor in mediating algesia and in regulation of blood pressure. Studies in mice also suggested that this gene may mediate adrenocorticotrophic hormone response to bacterial endotoxin. [provided by RefSeq]
Other Designations	PGE receptor, EP1 subtype prostaglandin E receptor 1, subtype EP1 prostanoid EP1 receptor

Pathway

- [Calcium signaling pathway](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Alzheimer disease](#)
- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Infant](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)