Datasheet for ABIN7563092

PTGER3 Protein (AA 1-365) (His tag)

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Overview

Quantity:	1 mg
Target:	PTGER3
Protein Characteristics:	AA 1-365
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTGER3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Ptger3 Protein expressed in mammalien cells.
Sequence:	MASMWAPEHS AEAHSNLSST TDDCGSVSVA FPITMMVTGF VGNALAMLLV SRSYRRRESK RKKSFLLCIG WLALTDLVGQ LLTSPVVILV YLSQRRWEQL DPSGRLCTFF GLTMTVFGLS SLLVASAMAV ERALAIRAPH WYASHMKTRA TPVLLGVWLS VLAFALLPVL GVGRYSVQWP GTWCFISTGP AGNETDPARE PGSVAFASAF ACLGLLALVV TFACNLATIK ALVSRCRAKA AVSQSSAQWG RITTETAIQL MGIMCVLSVC WSPLLIMMLK MIFNQMSVEQ CKTQMGKEKE CNSFLIAVRL ASLNQILDPW VYLLLRKILL RKFCQIRDHT NYASSSTSLP CPGSSALMWS DQLER **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalien cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	PTGER3
Alternative Name:	Ptger3 (PTGER3 Products)
Background:	Prostaglandin E2 receptor EP3 subtype (PGE receptor EP3 subtype) (PGE2 receptor EP3 subtype) (Prostanoid EP3 receptor),FUNCTION: Receptor for prostaglandin E2 (PGE2) (PubMed:1372606, PubMed:8381413, PubMed:8223569). Required for normal development of fever in response to pyrinogens, including IL1B, prostaglandin E2 and bacterial lipopolysaccharide (LPS) (PubMed:9751056). Required for normal potentiation of platelet aggregation by prostaglandin E2, and thus plays a role in the regulation of blood coagulation (PubMed:11535576). Required for increased HCO3(-) secretion in the duodenum in response to mucosal acidification, and thereby contributes to the protection of the mucosa against acid-induced ulceration (PubMed:10535876). Not required for normal kidney function, normal urine volume and osmolality (PubMed:9843913). {ECO:0000269|PubMed:10535876, ECO:0000269|PubMed:11535576, ECO:0000269|PubMed:1372606, ECO:0000269|PubMed:8223569, ECO:0000269|PubMed:8381413, ECO:0000269|PubMed:9751056, ECO:0000269|PubMed:9843913}., FUNCTION: [Isoform Alpha]: Receptor for prostaglandin E2 (PGE2), ligand binding activates a signaling cascade via G(i)

Target Details

	proteins that leads to inhibition of adenylate cyclase (PubMed:1372606, PubMed:8381413). Shows high agonist-independent constitutive inhibition of adenylate cyclase (PubMed:8223569). {ECO:0000269|PubMed:1372606, ECO:0000269|PubMed:8223569, ECO:0000269|PubMed:8381413}., FUNCTION: [Isoform Beta]: Receptor for prostaglandin E2 (PGE2), ligand binding activates a signaling cascade via G(i) proteins that leads to inhibition of adenylate cyclase. Requires much higher ligand concentrations than isoform Alpha for activation (PubMed:8381413). Does not display agonist-independent constitutive inhibition of adenylate cyclase (PubMed:8223569). {ECO:0000269|PubMed:8223569, ECO:0000269|PubMed:8381413}., FUNCTION: [Isoform Gamma]: Receptor for prostaglandin E2 (PGE2), ligand binding can activate several distinct signaling cascades, resulting in activation or inhibition of adenylate cyclase. {ECO:0000269|PubMed:8223569}.
Molecular Weight:	40.1 kDa
UniProt:	P30557

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months