

Datasheet for ABIN7554904

Prostaglandin D2 Receptor 2 (PTGDR2) (AA 1-395) protein (His tag)



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Overview

Quantity:	1 mg
Target:	Prostaglandin D2 Receptor 2 (PTGDR2)
Protein Characteristics:	AA 1-395
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

Product Details

Purpose:	Custom-made recombinant PTGDR2 Protein expressed in mammalian cells.
Sequence:	MSANATLKPL CPILQMSRL QSHSNTSIRY IDHAAVLLHG LASLLGLVEN GVILFVVGCR MRQTVVTTWV LHLALSDLLA SASLPFFTYF LAVGHSWELG TTFCKLHSSI FFLNMFASGF LLSAISLDRCLQVVRPVWAQ NHRTVAAAHK VCLVLWALAV LNTVPYFVFR DTISRLDGRI MCYYNVLLLN PGPDRDATCN SRQVALAVSK FLLAFLVPLA IIASSHAAVS LRLQHRGRRR PGRFVRLVAA VAAAFALCWG PYHVFSLLA RAHANPGLRP LVWRGLPFVT SLAFFNSVAN PVLYVLTCPD MLRKLRRSLR TVLESVLVDD SELGGAGSSR RRRSSTARS ASPLALCSRPEEPRGPARLL GWLLGSCAAS PQTGPLNRAL SSTSS 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

Prostaglandin D2 Receptor 2 (PTGDR2)

Alternative Name:

PTGDR2 ([PTGDR2 Products](#))

Background:

Prostaglandin D2 receptor 2 (Chemoattractant receptor-homologous molecule expressed on Th2 cells) (G-protein coupled receptor 44) (CD antigen CD294),FUNCTION: Receptor for prostaglandin D2 (PGD2). Coupled to the G(i)-protein. Receptor activation may result in pertussis toxin-sensitive decreases in cAMP levels and Ca(2+) mobilization. PI3K signaling is also implicated in mediating PTGDR2 effects. PGD2 induced receptor internalization. CRTH2 internalization can be regulated by diverse kinases such as, PKC, PKA, GRK2, GPRK5/GRK5 and GRK6. Receptor activation is responsible, at least in part, in immune regulation and allergic/inflammation responses. {ECO:0000269|PubMed:11208866, ECO:0000269|PubMed:11535533, ECO:0000269|PubMed:17196174}.

Molecular Weight:

43.3 kDa

UniProt:

[Q9Y5Y4](#)

Pathways:

[Regulation of G-Protein Coupled Receptor Protein Signaling](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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
