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## Datasheet for ABIN7538239 FPR2 Protein

### Overview

Quantity:	50 µg
Target:	FPR2
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

### Product Details

Purpose:	Human FPR2 full length protein-synthetic nanodisc
Characteristics:	Unlike other membrane scaffold protein (MSP) Nanodisc on the market, our synthetic Nanodisc can be prepared directly from the cells. The polymers used during this process have a dual function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can then be purified.

### Target Details

Target:	FPR2
Alternative Name:	FPR2 ( <a href="#">FPR2 Products</a> )
Background:	Low affinity receptor for N-formyl-methionyl peptides, which are powerful neutrophil chemotactic factors (PubMed:1374236). Binding of FMLP to the receptor causes activation of neutrophils (PubMed:1374236). This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system (PubMed:1374236). The activation of LXA4R could result in an anti-inflammatory outcome counteracting the actions of

## Target Details

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proinflammatory signals such as LTB4 (leukotriene B4) (PubMed:9547339). Receptor for the chemokine-like protein FAM19A5, mediating FAM19A5-stimulated macrophage chemotaxis and the inhibitory effect on TNFSF11/RANKL-induced osteoclast differentiation (By similarity).[UniProtKB/Swiss-Prot Function]

Molecular Weight: The human full length FPR2 protein has a MW of 39kDa

UniProt: [P25090](#)

## Application Details

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Comment: Advantages of Synthetic Nanodiscs:

- Highly purified membrane proteins
- High solubility in aqueous solutions
- High stability
- Proteins are in a native membrane environment and remain biologically active
- No detergent and can be used for cell-based assays
- No MSP backbone proteins

Limitations of Synthetic Nanodiscs:

- Intolerant to acids and high concentrations of divalent metal ions

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Buffer: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

Storage: -20 °C,-80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months