

Datasheet for ABIN7597436  
**GPBAR1 Protein (AA 1-19) (Fc Tag)**



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## Overview

Quantity:	10 µg
Target:	GPBAR1
Protein Characteristics:	AA 1-19
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPBAR1 protein is labelled with Fc Tag.

## Product Details

Purpose:	Recombinant human GPBAR1 Protein with C-terminal human Fc tag
Sequence:	GPBAR1(Met1-Gly19) hFc(Glu99-Ala330)
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

## Target Details

Target:	GPBAR1
Alternative Name:	GPBAR1 ( <a href="#">GPBAR1 Products</a> )
Background:	BG37, TGR5, M-BAR, GPCR19, GPR131 <p>This gene encodes a member of the G protein-coupled receptor (GPCR) superfamily. This enzyme functions as a cell surface receptor for bile acids. Treatment of cells expressing this GPCR with bile acids induces the production of intracellular cAMP, activation of a MAP kinase</p>

## Target Details

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signaling pathway, and internalization of the receptor. The receptor is implicated in the suppression of macrophage functions and regulation of energy homeostasis by bile acids. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

Molecular Weight: predicted molecular mass of 28.0 kDa after removal of the signal peptide. The apparent molecular mass of GPBAR1-hFc is 25-55 kDa due to glycosylation.

UniProt: [Q8TDU6](#)

Pathways: [WNT Signaling](#), [Hormone Transport](#), [Sensory Perception of Sound](#)

## Application Details

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Application Notes: Extracellular Domain Proteins (ECD) can be used as:

- Immunogens for antibody drug development
- Reagents used for CAR-T positive cell monitoring
- Reagents for antibody screening and functional testing
- Reagents for antibody affinity measurement

Comment: The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein.

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. 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