

Recombinant Human PSG9 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50814

Size: 10ug, 100ug

Protein Name: Pregnancy-specific beta-1-glycoprotein 9 (PS-beta-G-9) (PSBG-9) (Pregnancy-specific glycoprotein 9) (PS34) (Pregnancy-specific beta-1 glycoprotein B) (PS-beta-B) (Pregnancy-specific beta-1-glycoprotein 11) (PS-beta-G-11) (PSBG-11) (Pregnancy-specific glycoprotein 11) (Pregnancy-specific glycoprotein 7) (PSG7)

Synonym: PSG9, PSG11

UniProt ID: Q00887

UniProt Link: www.uniprot.org/uniprotkb/Q00887/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 426 AA

Molecular Weight: 48 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGPLPAPSCTQRITWKGLLLTASLLNFWNPPTTAEVTIEAQPPKVSEGGKDVLLLVHNLPGYFW
YKGMTDLYHYIISYIVDGKIIYGPAYSGRETVYSNASLLIQNVTRKDAGTYTLHIIKRGDETREEIRHF
TFTLYLETPKPYISSNNLNPREAMEAVRLICDPETLDASYLWWMNGQSLPVTHRLQLSKTNRTLYLF
GVTKYIAGPYECEIRNPVSASRSDPVTNLNLLPKLPIPYITINNLNPRENKDVLAFCEPKSENYTYIWWL
NGQSLPVSPGVKRPIENRILILPSVTRNETGPYQCEIRDYGGRLSNPVILNVLYGPDLPRIYPSFTYY
RSGENLDLSCFTESNPPAEYFWTINGKFQQSGQKLFIPQITRNHSGLYACSVHNSATGKEISKSM TV
KVSGPCHGDLTESQS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Pregnancy-specific beta-1-glycoprotein 9 (PS-beta-G-9) (PSBG-9) (Pregnancy-specific glycoprotein 9) (PS34) (Pregnancy-specific beta-1 glycoprotein B) (PS-beta-B) (Pregnancy-specific beta-1-glycoprotein 11) (PS-beta-G-11) (PSBG-11) (Pregnancy-specific glycoprotein 11) (Pregnancy-specific glycoprotein 7) (PSG7) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Binds to the small latent transforming growth factor-beta complex, consisting of the N-terminal TGFB1 latency-associated peptide (LAP) and the mature form of TGFB1, thereby leading to the activation of TGFB1 (PubMed:27389696). The activation of TGFB1 leads to stimulation of naive CD4(+) T-cells to increase FoxP3 expression and to an increase in the number of FoxP3(+) regulatory T-cells (PubMed:27389696). Induces the differentiation of a suppressive CD4(+)LAP(+)FoxP3(-) T-cell subset (PubMed:27389696). Induces the secretion of TGFB1 in macrophages, but not in activated CD4(+) T-cells (PubMed:27389696). May reduce the expression of several pro-inflammatory cytokines and chemokines by CD4(+) T-cells, including IL2 and IL6 (PubMed:27389696).

Subcellular Localization: Secreted .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.