

PSG5, 35-335aa, Human, His tag, E.coli

Cat.NO.: TP03558

3th Edition

Synonyms: Pregnancy-specific beta-1-glycoprotein 5, FL-NCA-3, PSG

Description: PSG5 is a member of the PSG family, a group of closely related secreted glycoproteins that are highly expressed in fetal placental syncytiotrophoblast cells. PSGs become detectable in serum during the first two to three weeks of pregnancy and increase as the pregnancy progresses, eventually representing the most abundant fetal protein in the maternal blood at term. PSG5 function to stimulate secretion of TH2-type cytokines from monocytes, and they may also modulate the maternal immune system during pregnancy, thereby protecting the semi-allotypic fetus from rejection. Recombinant human PSG5 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1M Urea, 10% glycerol

Molecular Weight: 36.4 kDa (324aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSQVTIEALPPKVSEGKDVLLLVHNL PQNLAGYIWYKGQLMDLYHYITSYVVDG
QINIYGPAYTGRET VYSNASLLIQNVTREDAGSYTLHIIKRGDRTRGVTGYFTFNLYLKL PKPYITINNSKPRENKDVL
AFTCEPKSENYTIWWLNGQSLPVSPRVKRPIENRILIPSVTRNETGPYECEIRD RDGGMRSDPVTLNVLYGPDLP
SIYPSFTYYRSGENLYLSCFAESNPPAEYFWTINGKFQQSGQKLSIPQITTKHRGLYTCSVRNSATGKESSKSMTVE
VSAPSGIGRLPLL NPI

Purity: > 95% by HPLC

Concentration: 0.5 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.