

PSG1, 35-419aa, Human, His tag, E.coli

Cat.NO.: TP03557

3th Edition

Synonyms: Pregnancy-specific beta-1-glycoprotein 1 isoform 1 , B1G1, CD66f, DHFRP2, FL-NCA-1/2, PBG1, PS-beta-C/D, PS-beta-G-1, PSBG-1, PSBG1, PSG95, PSGGA, PSGIIA, SP1

Description: PSG1 belongs to a subgroup of transcription factors that are phosphorylated upon binding to promoter sequences. PSGs are part of the carcinoembryonic antigen (CEA) family and serve as early biochemical markers of syncytiotrophoblast formation. The sequence specificity of DNA binding is conferred by Zn (II) fingers, whereas a different region of PSG1 appears to regulate the affinity of DNA binding. Additionally, PSG1 is believed to mediate placental vascular morphogenesis by enhancing VEGF-A production and endothelial tube formation. Recombinant human PSG1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight: 45.9kDa (408aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSQVTIEAEPTKVSEGKDVLLL VHNLPQNLTGYIWYKQMRDLYHYITSYVVDG
EIIYGPAYSGRETAYSNASLLIQNVTRDAGSYTLHIKGGDGTGRVTRFTLHLETPKPSISSNLNPRETMEAV
SLTCDPETPDASYLWWMNGQSLPMTSLKSLKSETNRTLFLLGVTKYTAGPYECEIRNPVSASRSDPVTLNLLPKLPK
PYITINLNPRENKDVLNFTCEPKSENYTIWWLNGQSLPVSPRVKRIENRILILPSVTRNETGPYQCEIRDYGGIR
SDPVTLNVLYGPDLPRIYPSFTYYRSGEVLYLSCSADSNPPAQYSWTINEKFQLPGQKLFIRHITTKHSGLYVCSVRN
SATGKESSKSMTVEVSGKWIP

Purity: > 95% by HPLC

Concentration: 1 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.