Data Sheet (Cat.No.TMPJ-01375)

TargetMol

HSPB7 Protein, Human, Recombinant (His)

General Information

Synonyms:	Pregnancy specific β-1-glycoprotein 2;PSG2;PSBG2;pregnancy-specific beta-1-glycoprotein 7;Pregnancy-specific beta-1 glycoprotein E;pregnancy-specific β-1-glycoprotein 2; pregnancy-specific beta-1-glycoprotein 2;pregnancy-specific β-1-glycoprotein 7;Pregnancy specific beta-1-glycoprotein 2;Pregnancy-specific β-1 glycoprotein E
Protein Construction:	Met1-Ile170
Species:	Human
Expression Host:	E. coli
Accession:	Q9UBY9
Molecular Weight:	20-25 KDa (reducing condition)
AA Sequence:	Met1-Ile170

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 0.2M NaCl, 2 mM DTT, 50%Glycerol, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

PSG2 is a secreted protein that in humans is encoded by the PSG2 gene. It is a member of the human pregnancy-specific glycoproteins (PSGs) family. These proteins are synthesized in large amounts by placental trophoblasts and released into the maternal circulation during pregnancy. PSG2 consist of a single N domain, with structural similarity to the immunoglobulin variable domains, followed by a variable number of immunoglobulin constant-like A and/or B domains. It has an arg-gly-asp (RGD) motif, which has been shown to function as an adhesion recognition signal for several integrins, in the N-terminal domain.

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