

## PGR

### Recombinant Human Progesterone Receptor GST

<b>Catalog No.</b>	CRP145A CRP145B CRP145C	<b>Quantity:</b>	2 µg 5 µg 10 µg
<b>Alternate Names:</b>	PR, Nuclear receptor subfamily 3 group C member 3, NR3C3.		
<b>Description:</b>	Recombinant Human Progesterone Receptor GST Tag is a 151 aa peptide consisting of aa 412-562 fused to a GST tag.		
<p>PGR belongs to the steroid receptor superfamily and is an intracellular steroid receptor that specifically binds progesterone. The progesterone receptor is an estrogen-regulated protein. PGR mediates the physiological effects of progesterone, which plays a fundamental role in reproductive events associated with establishing and maintaining pregnancy. PGR uses 2 distinct promotors and translation start sites in the first exon to produce 2 isoforms, A &amp; B, which differ in their molecular weight (isoform A has 165 additional amino acids at the N-terminus). The progesterone receptor has an amino and a carboxyl terminal, the regulatory domain between them, a DNA binding domain, the hinge section, and the hormone binding domain. If no hormone is bound, the carboxyl terminal inhibits transcription. Binding to a hormone stimulates a structural change, which eliminates the inhibitory action. Following the progesterone binding to the receptor, restructuring with dimerization begins and the complex enters the nucleus where it binds to DNA.</p> <p>It has been proposed that expression of PGR determination indicates a responsive estrogen receptor (ER) pathway, and therefore, may predict likely response to endocrine therapy in human breast cancer. A number of studies have shown that PGR determination provides supplementary information to ER, both in predicting response to endocrine therapy and estimating survival. PGR has proved superior to ER as a prognostic indicator in some studies.</p>			
<b>GeneID:</b>	5241		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	43 kDa by SDS-PAGE (including the GST tag).		
<b>Formulation:</b>	Sterile filtered clear solution containing 50 mM Tris-HCl, pH7.5, + 10 mM L-glutathione (reduced).		
<b>Purification:</b>	The PGR is purified by proprietary chromatographic techniques.		
<b>Storage &amp; Stability:</b>	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. <b>Please prevent freeze-thaw cycles.</b>		
<b>Applications:</b>	ELISA, Inhibition Assays, Western blotting		

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