

Active Recombinant Human Prolactin Receptor / PRLR protein, Fc-tagged

Cat. No. PRLR-386H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRLR protein (Gln25-Asp234), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	25-234 a.a.
Description	As a transmembrane receptor, the prolactin receptor (PRL-R) interacts with prolactin. In addition, the PRL-R also binds and is activated by growth hormone (GH) and human placental lactogen (hPL). Preclinical investigations, epidemiological studies and analyses of tissue specimens from patients strongly support the contribution of prolactin receptor (PRLR) signaling to breast and prostate tumorigenesis and cancer progression. Moreover, The PRLR has been found to be essential for lobuloalveolar maturation of the mammary glands during pregnancy, as evidenced by the fact that PRLR knockout mice show severely impaired development of lobuloalveolar structures.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 51.0 kDa. The protein migrates as 64 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

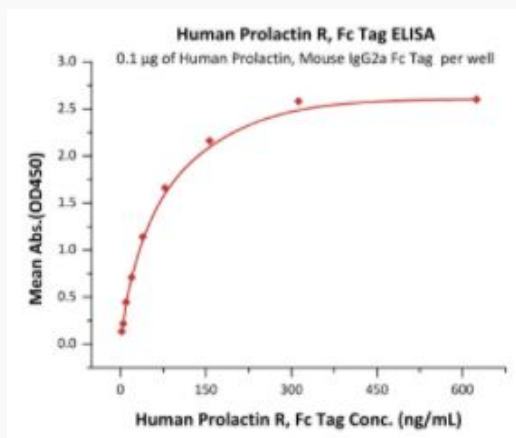
GENE INFORMATION

Gene Name	PRLR
Official Symbol	PRLR
Synonyms	PRLR; prolactin receptor; PRL-R; hPRL receptor; secreted prolactin binding protein; hPRLrI
Gene ID	5618
mRNA Refseq	NM_000949
Protein Refseq	NP_000940
MIM	176761

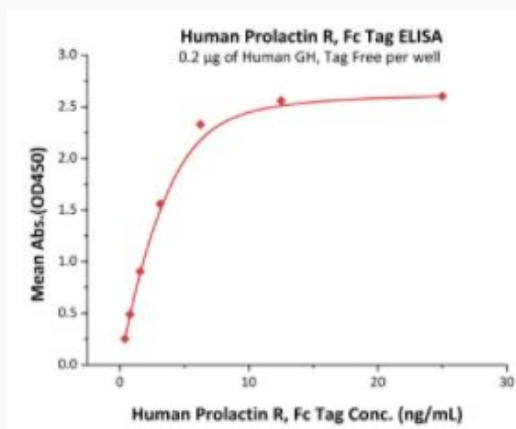
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UniProt ID
P16471
**Bioactivity-ELISA of
PRLR-386H**


Immobilized Human Prolactin, Mouse IgG2a Fc Tag, low endotoxin at 1 µg/mL (100 µL/well) can bind Human Prolactin R, Fc Tag with a linear range of 2-39 ng/mL (QC tested).

**Bioactivity-ELISA of
PRLR-386H**


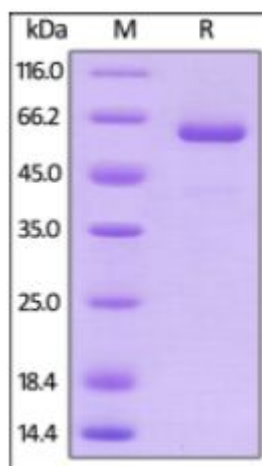
Immobilized Human GH, Tag Free at 2 µg/mL (100 µL/well) can bind Human Prolactin R, Fc Tag with a linear range of 0.4-6 ng/mL (Routinely tested).

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SDS-PAGE of PRLR-386H



Human Prolactin R, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.