

## prolactin receptor antagonist Active Protein

Human prolactin receptor antagonist - SUPER ACTIVE

|                              |                       |
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| CATALOG #<br><b>AAA39185</b> | HOST<br><b>E Coli</b> |
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### PRODUCT SYNONYMS

prolactin receptor antagonist; Human prolactin receptor antagonist - SUPER ACTIVE; prolactin receptor antagonist active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                                           |
| Purity/Purification     | Greater than 97.0% as determined by: (a) Gel filtration analysis (size exclusion chromatography). (b) Analysis by reducing and non-reducing SDS-PAGE gel.                                                                                                                                                                                                                                        |
| Form/Format             | Sterile Filtered White lyophilized (freeze-dried) powder.; The protein was lyophilized from a concentrated (1-2mg/ml) solution with 0.02-0.03% NaHCO <sub>3</sub> .                                                                                                                                                                                                                              |
| Sequence                | Thesequenc eofthefirs tsixN-term inalaminao cidswasdet erminedand wasfoundto beAla-Arg- Ser-Gln-Va I-Thr                                                                                                                                                                                                                                                                                         |
| Solubility              | It is recommended to reconstitute the lyophilized PRLR in sterile 0.4% NaHCO <sub>3</sub> adjusted to pH 8-9 not less than 100ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                               |
| Dimers and Aggregates   | The purified del 1-9 G129R hPRL superactive antagonists consists of > 95% monomers as determined by gel-filtration chromatography.                                                                                                                                                                                                                                                               |
| Biological Activity     | fully biologically active as evidenced by inhibiting PRLR-induced proliferation of Nb2 cells or Baf3 cells stably transfected with hPRL receptors. It also interacts at 1:1 molar ratio with human prolactin receptor extracellular domain as documented by SEC and SPR (Biacore analysis). It is ~ 100 fold more potent than 1-9 G129R hPRL in Ba/F3 cells and > 1000-fold potent in Nb2 cells. |
| Endotoxin               | Less than 0.1 ng/ug (IEU/ug) of del 1-9 G129R hPRL                                                                                                                                                                                                                                                                                                                                               |
| Protein Content         | Protein quantitation was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.96 as the extinction coefficient for a 0.1% (1mg/ml) solution at pH 8.0. This value is calculated by theDNAMAN computer analysis program of protein sequences.                                                                                                                                 |
| Preparation and Storage | Lyophilized PRLR although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C.<br>Upon reconstitution at > 0.1 mg/ml and up to 3 mg/ml and filter sterilization PRLR can be stored at 4 degree C for several weeks.<br><br><b>Please prevent freeze-thaw cycles.</b>                                                                                          |

### ADDITIONAL INFORMATION

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| Related Product Information for prolactin receptor antagonist active protein | Prolactin Human Receptor Antagonist del 1-9, G129R mutant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 190 amino acids + an additional Ala at n-terminal and having a molecular mass of ~ 22 kDa. The Human Prolactin ReceptorAntagonist is purified by proprietary chromatographic techniques. |
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### NCBI AND UNIPROT INFORMATION

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| NCBI GeneID | 5617 |
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**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/prolactin-receptor-antagonist/39185>