Recombinant Mouse Prolactin/PRL Protein (His Tag)

Catalog Number: PKSM040715

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

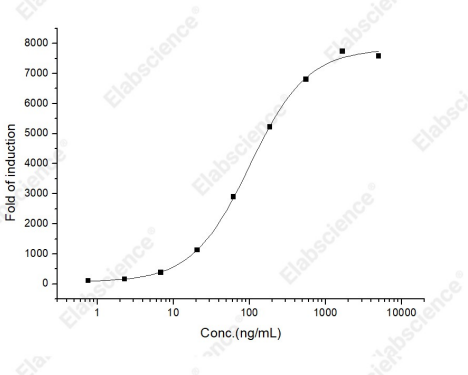
Description

Species	Mouse
Source	Baculovirus-Insect Cells-derived Mouse Prolactin/PRL protein Leu 32-Cys 228, with an C-terminal His
Calculated MW	23.8 kDa
Observed MW	26 kDa
Accession	P09411
Bio-activity	Not validated for activity

Properties

Purity	> 92 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 20 mM Tris, 300 mM NaCl, 10% Glycerol, pH 7.5.
Reconstitution	Please refer to the printed manual for detailed information.

Data



Measured by its ability to induce PRL pathway activation in a Luciferase receptor Assay System. The ED_{50} for this effect is typically 50-500 ng/mL.

Background

Prolactin (PRL) is a hormone with multiple actions in the central nervous system (CNS) spanning from physiology to pathology. PRL exerts different actions through its receptors that can be found in both neurons and glial cells (astrocytes, microglia and oligodendrocytes) of the brain.It is generally believed that in vertebrates, prolactin (PRL) is predominantly synthesized and released by pituitary lactotrophs and plays important roles in many physiological processes via activation of PRL receptor (PRLR), including water and electrolyte balance, reproduction, growth and development, metabolism, immuno-modulation, and behavior.

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