
Product Data Sheet

Product Name: Leptin Receptor Human
 Cat. No.: GP20716
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	OB Protein; Obesity Protein; OBS; Obesity factor; Leptin Receptor.		
Amino Acid Sequence	The sequence of the first six N-terminal amino acids was determined and was found to be Ala-Ile-Asp-Val-Asn-Ile.		
Solubility	It is recommended to reconstitute the lyophilized Leptin Receptor in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a concentrated (0.2-0.5mg/ml) solution of Tris-HCl buffer, pH 9.0 with 150 mM NaCl and 10-fold (w/w) excess of glycine.		

Introduction

Leptin Receptor is a part of the gp130 family of cytokine receptors that stimulate gene transcription by activating cytosolic STAT proteins. Leptin Receptor plays a role in the regulation of fat metabolism and in novel hematopoietic pathway that is obligatory for normal lymphopoiesis. Leptin Receptor participates in the regulation of counter-regulatory response to hypoglycemia by inhibiting neurons of the parabrachial nucleus. Leptin Receptor affects specifically on T lymphocyte responses.

Biological Activity

Biological Activity is evidenced by high affinity binding of mammalian leptins at 1:1 molar ratio.

Stability

Lyophilized Leptin Receptor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Leptin Receptor should be stored at

Caution: Product has not been fully validated for medical applications. For research use only.

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4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Leptin Binding Domain Human Recombinant also called Leptin Receptor produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 208 amino acids (428-635 a.a) and an additional Ala at N-terminus acids and having a molecular mass of 24.5 kDa.The Leptin Binding Domain is purified by proprietary chromatographic techniques.

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