
Product Data Sheet

Product Name: 4 1BBR Human
 Cat. No.: GP20958
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Tumor necrosis factor receptor superfamily member 9; 4-1BB ligand receptor T-cell; antigen 4-1BB homolog; T-cell antigen ILA; CD137 antigen; CDw137; ILA; 4-1BB; MGC2172; 4-1BBR; TNFRSF9.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Glu-Arg-Thr-Arg.		
Solubility	It is recommended to reconstitute the lyophilized 4-1BB Receptor in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.		

Introduction

The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contributes to the clonal expansion, survival, and development of T cells. It can also induce proliferation in peripheral monocytes, enhance T cell apoptosis induced by TCR/CD3 triggered activation, and regulate CD28 co-stimulation to promote Th1 cell responses. The expression of this receptor is induced by lymphocyte activation. TRAF adaptor proteins have been shown to bind to this receptor and transduce the signals leading to activation of NF-kappaB.

Biological Activity

The activity was determined by the inhibition of 4-1BB ligand mediated stimulation of IL-8 production by human PBMC. Results: 90% inhibition using 1?g for both 4-1BB ligand and 4-1BB receptor.

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

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Stability

Lyophilized 4-1BB Receptor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution 4-1BBR should be stored at 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

4-1BB Soluble Receptor Recombinant Human also called Tumor necrosis factor receptor superfamily member 9 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 167 amino acids, having a molecular mass of 17718 Dalton and containing the cysteine rich TNFR-like extracellular domain of 4-1BB Receptor. The 4-1BB Receptor is purified by proprietary chromatographic techniques.

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