9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

RAP Rat

Receptor Associated Protein Rat Recombinant
RCP1807

Product Overview

Name	RAP Rat

Description

Receptor Associated Protein Rat Recombinant

Synonyms

Receptor Associated Protein, RAP.

Introduction

Receptor-associated Protein (aka RAP) averts the GCM-mediated enhancement of axon growth- ApoE-containing lipoproteins which are known to bind to receptors of the LDLr superfamily. In the presence of RAP, GCM doesn't increase the axon extension rate in relation to base medium. Furthermore, the addition of RAP to the base medium doesn't change the rate of axon extension. This implies that the growth stimulatory effect of apoE-containing lipoproteins secreted by glial cells is mediated by the LDLr family receptors. RAP annuls the growth stimulatory effect of GCM.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein (1mg/ml) was lyophilized after from a sterile solution containing TBS pH-7.5, 0.1% BSA and 0.09% NaN3.

Stability

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

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MAPLRDRVSTLPRLQLLVLLLLPLLLVPQPIAGHGGKYSREKNEPEMAAKRESGEEFRME
KLNQLWEKAKRLHLSPVRLAELHSDLKIQERDELNWKKLKVEGLDGDGEKEAKLVHNLNV
ILARYGLDGRKDTQTVHSNALNEDTQDELGDPRLEKLWHKAKTSGKFSSEELDKLWREFL

HYKEKIHEYNVLLDTLSRAEEGYENLLSPSDMTHIKSDTLASKHSELKDRLRSINQGLDR
LRKVSHQGYGPATEFEEPRVIDLWDLAQSANFTEKELESFREELKHFEAKIEKHNHYQKQ
LEISHQKLKHVESIGDPEHISRNKEKYVLLEEKTKELGYKVKKHLQDLSSRVSRARHNEL.

Solubility

It is recommended to reconstitute the lyophilized RAP Rat in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Note

Ligand binding to RAP is Ca2+ dependent and e.g. lipid receptors can be released from RAP by a buffer containing 10mM EDTA. Furthermore, buffers containing phosphate should be avoided (it would form precipitates with Ca2+).

Precautions

RAP Rat is for research use only and not for use in diagnostic or therapeutic procedures.