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## Product Data Sheet

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Product Name: RAP Rat  
 Cat. No.: GP24444  
 Batch No.: 1

**Product Data**

Purity	>98%	Source
Physical Appearance	solid	Shipping Condition

Synonyms Receptor Associated Protein; RAP.

Amino Acid Sequence MAPLRDRVSTLPRLQLLVLLLLPLLLVPQPIAGHGGKYSREKNEPEMAAKRESGEEFRMEKLNQLWEKAKRLHLSPVRLAELHSDLKIQERDELNWKCLK

Solubility It is recommended to reconstitute the lyophilized RAP Rat in sterile 18MΩ-cm H<sub>2</sub>O not less than 100μg/ml, which can then be further formulated. The protein (1mg/ml) was lyophilized after from a sterile solution containing TBS pH-7.5, 0.1% BSA and 0.09% Na<sub>3</sub>N.

**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.

**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.

**Background**

Recombinant Rat Receptor Associated Protein produced in E.Coli is a single, non-glycosylated polypeptide chain containing 327 amino acids and having a molecular mass of 38,862 Dalton. The Recombinant RAP Rat contains 6xHis tag and 1xC-myc, RAP Rat is purified by proprietary chromatographic techniques.

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

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