

# Recombinant Rat Rap1a

**Cat. No.** Rap1a-255R    **Lot. No.** (See product label)

## SPECIFICATION

|                              |  |
|------------------------------|--|
| <b>Product Overview</b>      | Recombinant Rat RAP produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain. The RAP has a molecular mass of 38,862 Dalton. The RAP is purified by proprietary chromatographic techniques.  |
| <b>Species</b>               | Rat  |
| <b>Source</b>                | E.coli   |
| <b>Description</b>           | Trace amine-associated receptor 1 is a protein that in humans is encoded by the TAAR1 gene. TAAR1 is a G protein-coupled receptor activated by trace amines. Trace amines are endogenous amine compounds that account for less than 1% of the biogenic amines in most brain regions. |
| <b>Physical Appearance</b>   | Sterile Filtered White lyophilized (freeze-dried) powder.  |
| <b>Formulation</b>           | The protein (1mg/ml) was lyophilized after from a sterile solution containing TBS pH-7.5, 0.1% BSA and 0.09% NaN <sub>3</sub> .  |
| <b>Purity</b>                | Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.  |
| <b>Dimers And Aggregates</b> | Less than 1% as determined by silver stained SDS-PAGE gel analysis.  |
| <b>Endotoxin</b>             | Less than 0.1 ng/g (IEU/g) of rrRAP.   |

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|----------------------------|---|
| <b>Solubility</b>          | It is recommended to reconstitute the lyophilized rrRAP in sterile 18MΩ-cm H <sub>2</sub> O not less than 100g/ml, which can then be further diluted to other aqueous solutions.  |
| <b>Stability</b>           | Lyophilized rrRAP although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rrRAP 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. |
| <b>GENE INFORMATION</b>    |   |
| <b>Gene Name</b>           | Rap1a RAP1A, member of RAS oncogene family [ <i>Rattus norvegicus</i> ]   |
| <b>Synonyms</b>            | Rap1a; RAP1A, member of RAS oncogene family; RAP-1A; rap 1A; MGC93785; MGC94873; Ras-related protein RAP-1A; RAS-related protein 1a   |
| <b>Gene ID</b>             | 295347  |
| <b>mRNA Refseq</b>         | NM_001005765  |
| <b>Protein Refseq</b>      | NP_001005765  |
| <b>UniProt ID</b>          | P62836  |
| <b>Chromosome Location</b> | 2q34  |
| <b>Pathway</b>             | Chemokine signaling pathway; Focal adhesion; Leukocyte transendothelial migration; Long-term potentiation; MAPK signaling pathway; Neurotrophin signaling pathway; Renal cell carcinoma   |
| <b>Function</b>            | GTP binding; GTPase activity; Ras GTPase binding; nucleotide binding; protein   |

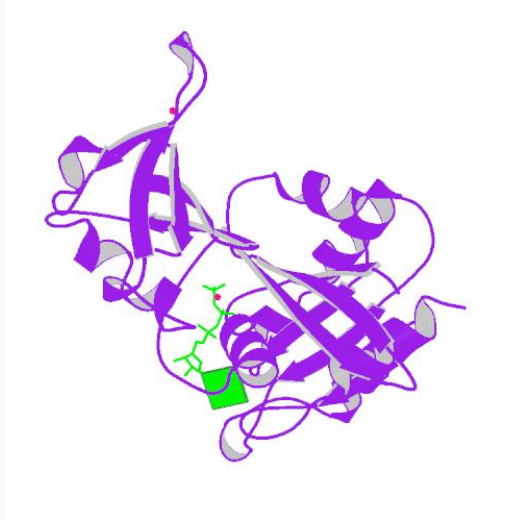
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binding

PDB rendering based  
on 1c1y.



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