

Recombinant Rat Rap1a

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

SPECIFICATION

Product Overview	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.
Species	Rat
Source	E.coli
Description	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.
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% NaN ₃ .
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Dimers And Aggregates	Less than 1% as determined by silver stained SDS-PAGE gel analysis.
Endotoxin	Less than 0.1 ng/g (IEU/g) of rrRAP.

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

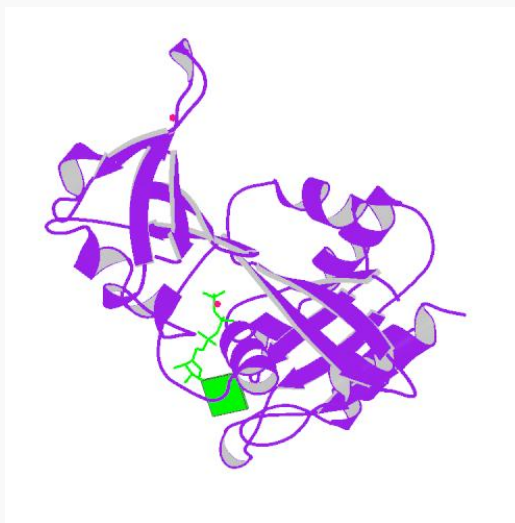
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binding

PDB rendering based
on 1c1y.



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