

SYNGAP1 Protein, Human, Recombinant (His)

General Information

Synonyms:	SYNGAP1; KIAA1938; Synaptic Ras GTPase-activating protein 1 (Synaptic Ras-GAP 1); Neuronal RasGAP; Ras/Rap GTPase-activating protein SynGAP
Protein Construction:	1161-1343 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q96PV0
Molecular Weight:	25.5 kDa (predicted)
AA Sequence:	MPHLSADIESAHIEREEYKLKEYSKSMDESRLDRVKEYEEIHSLSKERLHMSNRKLEEYERRLLSQEEQTSKILM QYQARLEQSEKRLRQQQA EKDSQIKSIIGRLMLVEEELRRDHPAMA EPLPEPKRLLDAQERQLPPLGPTNPR VTLAPPWNGLAPPAPPPPPRLQITENGEFRNTADH

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Major constituent of the PSD essential for postsynaptic signaling. Inhibitory regulator of the Ras-cAMP pathway. Member of the NMDAR signaling complex in excitatory synapses, it may play a role in NMDAR-dependent control of AMPAR potentiation, AMPAR membrane trafficking and synaptic plasticity. Regulates AMPAR-mediated miniature excitatory postsynaptic currents. Exhibits dual GTPase-activating specificity for Ras and Rap. May be

involved in certain forms of brain injury, leading to long-term learning and memory deficits.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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