

## RGS5 Protein, Human (His)

Cat. No.:	HY-P74596
Synonyms:	Regulator of G-protein signaling 5; RGS5
Species:	Human
Source:	E. coli
Accession:	O15539 (M1-K181)
Gene ID:	8490
Molecular Weight:	Approximately 25 kDa

### PROPERTIES

AA Sequence	<pre> MCKGLAALPH   SCLERAKEIK   IKLGILLQKP   DSVGDLVIPY NEKPEKPAKT   QKTSLDEALQ   WRDSLDKLLQ   NNYGLASFKS FLKSEFSEEN   LEFWIACEDY   KKI KSPAKMA   EKAKQIYEEF I QTEAPKEVN   IDHFTKDI TM   KNLVEPSLSS   FDMAQKR IHA LMEKDSLPRF   VRSEFYQELI   K           </pre>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from sterile 50 mM Tris-HCL, 300 mM NaCl, pH 7.4
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	RGS5, a proficient modulator of signal transduction, exerts its inhibitory impact by enhancing the GTPase activity of G protein alpha subunits, facilitating their transition into the inactive GDP-bound state. While it forms associations with G(i)-alpha and G(o)-alpha, its interaction excludes G(s)-alpha. This selective binding underscores its role in precisely regulating the activity of specific G protein subunits, contributing to the fine-tuning of cellular signaling pathways.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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