RAMP3 Protein, Human (HEK293, hFc)

Cat. No.:	HY-P74603
Synonyms:	Receptor activity-modifying protein 3; RAMP3
Species:	Human
Source:	HEK293
Accession:	O60896 (R24-V118)
Gene ID:	10268
Molecular Weight:	Approximately 45-60 kDa due to the glycosylation.

PROPERTIES

AA Sequence	R A G G C N E T G M L E R L P L C G K A F A D M M G K V D V W K W C N L S E F I V Y Y E S F T N C T E M E A N V V G C Y W P N P L A Q G F I T G I H R Q F F S N C T V D R V H L E D P P D E V
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	RAMP3 emerges as a key participant in cardioprotection, exerting its influence by mitigating cardiac hypertrophy and perivascular fibrosis in a GPER1-dependent manner. Functionally versatile, RAMP3 facilitates the transportation of the calcitonin gene-related peptide type 1 receptor (CALCRL) and GPER1 to the plasma membrane, underscoring its role in orchestrating membrane-associated signaling events. Additionally, RAMP3 serves as a receptor for adrenomedullin (AM) alongside CALCRL, forming a heterodimeric complex that engages in molecular interactions crucial for mediating the effects of AM. The intricate interplay of RAMP3 with GPER1 further highlights its involvement in diverse cellular pathways and underscores its significance in cardiovascular physiology.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA