Calcitonin R Protein, Human (HEK293, Fc)

Cat. No.:	HY-P74358
Synonyms:	Calcitonin R; Calcitonin receptor; CALCR; CRT; CTR; CTR1
Species:	Human
Source:	HEK293
Accession:	P30988 (A25-I153)
Gene ID:	799
Molecular Weight:	Approximately 42.1 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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	The Calcitonin R protein serves as a receptor for calcitonin, exerting its activity through G proteins that subsequently activate adenylyl cyclase. This receptor is believed to couple with a heterotrimeric G protein sensitive to cholera toxin. However, it is noteworthy that while the Calcitonin R serves as a receptor for calcitonin, it does not effectively couple to G proteins, resulting in the inability to activate adenylyl cyclase. Additionally, following ligand binding, this receptor does not undergo the typical process of receptor internalization.

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