

## CASR Protein, Human, Recombinant (GST)

## General Information

Synonyms:	Parathyroid cell calcium-sensing receptor 1 (PCaR1);CASR;hCasR;Extracellular calcium-sensing receptor;PCAR1;CaR;GPRC2A
Protein Construction:	20-612 aa
Species:	Human
Expression Host:	E. coli
Accession:	P41180
Molecular Weight:	93.6 kDa (predicted)
AA Sequence:	YGPDQRAQKKGDIILGGLFPIHFGVAAKDQDLKSRPESVEICIRYNFRGFRWLQAMIFAIEEINSSPALLPNLTLG YRIFDTCNTVSKALEATLSFVAQNKIDSLNLDFCNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSYAS SSRLLSNKNQFKSFLRTIPNDEHQATAMADIIEYFRWNWVGTAADDDYGRPGIEKFREEAEERDIDFSELIS QYSDEEEIQHVVEVIQNSTAKVIVVFSSGPDLEPLIKEIVRRNITGKIWLASEAWASSLIAMPQYFHVGGTIGF ALKAGQIPGFREFLKKVHPRKSVHNGFAKEFWEETFNCHLQEGAKGPLVDTFLRGHEESGDRFSNSSTAFRP LCTGDENISSVETPYIDYTHLRISYNNVYLAVYSIAHALQDIYTCLPGRGLFTNGSCADIKKVEAWQVLKHLRHLN FTNNMGEQVTFDECGDLVGNYSIINWHLSPEDGSIVFKEVGYNNVYAKKGERLFINEEKILWSGFSREPLTFVL SVLQVPFSNCSRDCLAGTRKGIIEGEPTCCFECVECPDGEYSDETDASACNKCPDDFWSNENHTSCIAKE

## 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 &amp; 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**

G-protein-coupled receptor that senses changes in the extracellular concentration of calcium ions and plays a key role in maintaining calcium homeostasis. Senses fluctuations in the circulating calcium concentration and modulates the production of parathyroid hormone (PTH) in parathyroid glands. The activity of this receptor is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system. The G-protein-coupled receptor activity is activated by a co-agonist mechanism: aromatic amino acids, such as Trp or Phe, act concertedly with divalent cations, such as calcium or magnesium, to achieve full receptor activation.

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