



Recombinant Protein Technical Manual  
Recombinant Human CALCB Protein (aa 118, Fc Tag)  
RPES4060

### Product Data:

**Product SKU:** RPES4060

**Size:** 20µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** P10092

### Protein Information:

**Molecular Mass:** 36.2 kDa

**AP Molecular Mass:**

**Tag:** C-Fc

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Calcitonin gene-related peptide 2; CALC2; Beta-type CGRP; Calcitonin gene-related peptide II; CALCB

## Immunogen Information:

**Sequence:** Met 1-Phe118

## Background:

CALCB, also known as CGPR and calcitonin 2, belongs to the calcitonin family. CALCB is a calcitonin (CT) peptide which may play a role in the mediation of human inflammatory diseases. It is highly expressed in the skin, blood, and cerebrospinal fluid. CGRP immunolabeling (IL) was detected in epidermal keratinocytes at levels that were especially high and widespread in the skin of humans from locations afflicted with postherpetic neuralgia (PHN) and complex region pain syndrome type 1 (CRPS), of monkeys infected with simian immunodeficiency virus, and of rats subjected to L5/L6 spinal nerve ligation, sciatic nerve chronic constriction, and subcutaneous injection of complete Freund's adjuvant. Increased CGRP-IL was also detected in epidermal keratinocytes of transgenic mice with keratin4 promoter driven overexpression of noggin, an antagonist to BMP-4 signaling. CGPR dilates a variety of vessels including the coronary, cerebral and systemic vasculature.