

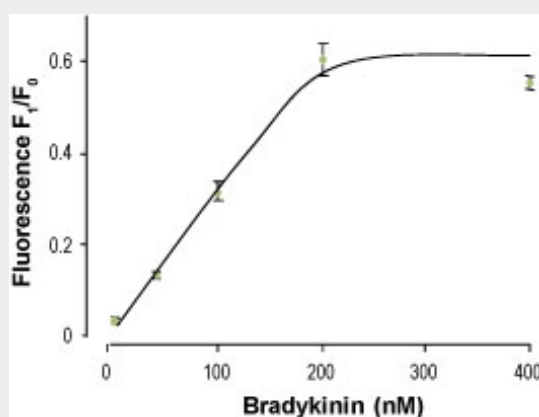
**Bradykinin Protein****A Ligand of B2 Bradykinin G-Protein Coupled Receptor****Catalog # PG10013****Specification****Bradykinin Protein - Product Information****Bradykinin Protein - Additional Information****Storage****-20°C****Precautions**

Bradykinin Protein is for research use only and not for use in diagnostic or therapeutic procedures.

**Bradykinin Protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Bradykinin Protein - Images**

Bradykinin - Abgent Bradykinin induces store operated  $Ca^{2+}$  release in RAEC cells. Cells were loaded with Fluo-3 AM. Intracellular  $Ca^{2+}$  fluctuations were measured in the presence of EGTA and increasing Bradykinin (#PG10013) concentrations. The fluorescence is plotted against

Bradykinin concentrations (ED50 = 93 ng/ml).

### **Bradykinin Protein - Background**

Bradykinin is a potent effector peptide that binds the bradykinin receptors B2. Bradykinin reduces blood pressure and increases vascular permeability by inducing smooth muscle relaxation and blood vessel dilation<sup>1</sup>. Bradykinin is one the most potent known factors inducing pain substances that acts on afferent sensory neurons Bradykinin stimulates the synthesis of prostaglandins<sup>2</sup> and is a major contributor to the innate inflammatory response<sup>3</sup>. Injection of Bradykinin into the skin produces all the inflammation basic signs<sup>4</sup>. Bradykinin has been implicated also in various shock syndromes<sup>5</sup>. Application of Bradykinin to the central nervous system appears to initiate events leading to neural tissue damage as well as long lasting disturbances affecting blood-brain barrier function<sup>6</sup>.

### **Bradykinin Protein - References**

1 . Bhoola, K.D. et al. (1992) Pharmacol. Rev.44,1.2 . Brechter, A.B. and Lemel, U. H. (2007) Arthritis Rheum.56,910.3 . Joseph, K. and Kaplan, A. P. 2005 Adv. Immunol.86,159.4 . Marceau, F. et al. (1983) Gen. Pharmacol.14,209.5 . Shin, Y. H. et al. (1996)Immunopharmacology 33,369.6 . Walker, K. et al.(1995)Neurochem. Int.26,1.