



PRODUCT DATA SHEET

Product: EDG-2 Blocking Peptide

Cat. No: BC-010 (50 µg)

Background:

Endothelial cell differentiation gene-2 (EDG-2) receptor is a high affinity receptor for lysophosphatidic acid (LPA). EDG-2, also known as lysopholipid receptor A1, Vzg-1, mrec1.3 or GPCR26, like all other EDG receptors, couple multiple (3 or more) types of G proteins and transduce decreases in $c[AMP]_i$ through G_i and increases in $[Ca^{2+}]_i$ by augmenting phospholipase C through $G_q/11$ and beta/gamma dimmers and by induction of PI3 kinase, p125 FAK, phospholipase D by activating rho through G12/13. Human EDG-2 is present in high levels on oligodendrocytes and certain human malignant T cell lines. EDG-2 receptors (with EDG-4) may play a role in protecting cardiomyocytes from apoptosis induced by hypoxia and adrenergic stimulation.

Description:

Blocking peptide for use in Western blotting with anti-EDG-2 (CT) catalog number PC-086.

Applications:

For use with EDG-2 (CT) polyclonal antibody catalog number PC-086. Incubate antibody neat with at least a 50 fold stoichiometric excess of blocking peptide at 37°C for 20 min. (molecular weights of peptide and antibody are ~2.5 kDa and ~160 kDa, respectively). Antibody can then be diluted to a concentration suitable for Western blot.

Storage and Stability:

Stable for one year when stored at -20°C. Avoid freeze/thaw cycles.

Format:

50 µg provided in PBS at 1 mg/ml.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.