



PRODUCT DATA SHEET

Product: EDG-2 Control

Cat. No: BC-011 (100 µl)

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:

EDG-2 Transfected Cell Positive Control Lysate. Provided in 10% glycerol, 0.063 M Tris-HCl (pH 6.8), 2% SDS and 0.002% bromophenol blue, 5% 2-Mercaptoethanol.

Applications:

For use as a positive control with EDG-2 polyclonal antibody PC-086 for Western blot analysis. Use 10 µl of EDG-2 cell lysate per lane as a control for using EDG-2 antibody.

Storage and Stability:

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

Format:

Cell lysate provided in 10% glycerol, 0.063 M Tris-HCl (pH 6.8), 2% SDS and 0.002% bromophenol blue, 5% 2-mercaptoethanol.

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.