



Lysophosphatidic Acid Receptor 1 (EDG2) Control Lysate

BACKGROUND

Endothelial cell differentiation gene-2 (EDG-2) receptor is a high affinity receptor for lysophosphatidic acid (LPA). EDG-2, also known as lysophospholipid 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 Gq/11 and beta/gamma dimers 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 andrenergic stimulation.

ORDERING INFORMATION

CATALOG NUMBER

X1218C

SIZE

100 μ l

CUSTOMER STORAGE

Product should be stored at $-20^{\circ}C$.
Aliquot to avoid freeze/thaw cycles

FORMULATION

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

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STABILITY

Products are stable for one year from purchase when stored properly

COMMENTS

For use as a positive control with Exalpha's EDG2 (LPA1) polyclonal antibody (Cat. No. C174P) for Western blot analysis.

INSTRUCTIONS

Use 10 μ l of EDG2 cell lysate (Cat. No. X1218C) per lane as a control for using EDG2 antibody (Cat. No. C174P). Due to low expression of EDG receptors, we recommend use of Pierce Femto Signal substrate for western blot development.