I. Introduction

Catalog Number: M00378
Cell Line Name: CHO-K1/EDG8/Gα15
Expressed Gene: Genbank Accession Number NM_030760
Host cell: CHO-K1
Quantity: 1 vial (1 ml per vial)
Protein Concentration: 1 mg/ml
Buffer: 50 mM HEPES, 5 mM MgCl₂, 1 mM CaCl₂ and 0.2% BSA, pH7.4
Application: Binding assay for EDG8 receptor
Storage: Store at -80°C

II. Background

The lysosphingolipid sphingosine 1-phosphate (S1P) is a biologically active lysophospholipid that regulates cell proliferation, apoptosis, motility, and neurite retraction. Its receptors are part of the endothelial differentiation gene (EDG) family, which has two groups: LPA receptors and S1P receptors. The latter of these includes S1P1, S1P2, S1P3, S1P4, and S1P5. EDG8 is localized mainly in the white matter tracts and oligodendrocytes, where, once activated by S1P, it plays a role in the maturation and myelination of oligodendrocytes.
III. References

