

Product datasheet

Recombinant human SPHK2 protein ab42625

Overview

Product name	Recombinant human SPHK2 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Baculovirus infected Sf9 cells

Amino Acid Sequence

Species	Human
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Specifications

Our [Abpromise guarantee](#) covers the use of **ab42625** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity	Specific Activity : 20 U/ug. One unit defined as the amount of enzyme that will transfer 1nmol phosphate to Tyr substrate per minute at pH 7.4 and 30deg.C. Assay buffer : 50mM HEPES pH 7.4, 3mM MgCl ₂ , 3mM MnCl ₂ , 1mM DTT, 3um Na-orthovanadate, 0.1M ATP, 30ug/ml Poly (Glu:Tyr) 4:1 substrate and 0.75ug/ml recombinant SPHK2.
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Applications	Inhibition Assay
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Form	Liquid
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Additional notes	Source : Baculovirus infected Sf9 cells
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Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0 This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

Function	Catalyzes the phosphorylation of sphingosine to form sphingosine 1-phosphate (SPP), a lipid mediator with both intra-and extracellular functions. Also acts on D-erythro-dihydrosphingosine, D-erythro-sphingosine and L-threo-dihydrosphingosine. Binds phosphoinositides.
Sequence similarities	Contains 1 DAGKc domain.
Cellular localization	Cytoplasm. Membrane and Lysosome membrane.

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