



11526 Sorrento Valley Rd SteA2
San Diego Ca 92121
Tel: 1.858.202.1401
1.858.829.3082
Fax: 1.858.259.5734
Email: info@bpsbioscience.com

Data Sheet

Sphingosine Kinase 1a (mouse, recombinant, N-terminal His tag) Catalog #: 40613

Description: Mouse Sphingosine kinase 1 (GenBank Accession No. AF415213), full length with N-terminal His tag, MW=47.10 kDa, expressed in a Baculovirus infected Sf9 cell expression system.

Source: Baculovirus infected Sf9 cells

Fomulated in: 25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, and 3 mM DTT.

Stability: >6 months at -80°C

Purity: >50% by SDS-PAGE.

Specific Activity: 20 U/ug. Sphingosine kinase activity was determined using *D-erythro*-sphingosine and ATP as substrates. A unit of sphingosine kinase activity is defined as the amount of enzyme required to produce 1 pmol of S1P/min. Assay buffer: 50 mM HEPES, pH 7.4, 150 mM NaCl, 5 mM MgCl₂, 1 mM DTT, 3 uM Na-orthovanadate, 0.5 mM ATP, 4 uM *D-erythro*-sphingosine, and 0.1-0.5 ug/ml sphingosine kinase 1.

Application: useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

References:

1. Delon, C., et al., J. Biol. Chem 279 (43) 44763-44774 (2004)
2. Taha, TA et al., FASEB J. 20(3):482-4 (2005)

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