

Recombinant *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Lai Sphingomyelinase C 2 partial

Cat. No. LISG-001

Lot. No. (See product label)

Introduction

Description	A recombinant partial sphingomyelinase C 2 protein corresponding to residues 158-433 of the <i>Leptospira interrogans</i> sph2 sequence.
Applications	Protein characterization, antibody development, and sph2-related biochemical research.
Synonyms	Sphingomyelinase C 2; Sphingomyelin phosphodiesterase 2; SMase 2; LA_1029

Product Information

Species	<i>Leptospira interrogans</i> serogroup Icterohaemorrhagiae serovar Lai (strain 56601)
Source	Recombinant expression in <i>Escherichia coli</i>
Form	Liquid or lyophilized powder
Formulation	Secreted
EC Number	EC 3.1.4.12
Molecular Weight	39.3 kDa
Purity	≥90% as determined by SDS-PAGE
Activity	Not tested
Structure	Partial protein; expression region 158-433 aa.
Composition	N-terminal 10×His tag C-terminal Myc tag
Buffer	Liquid form: Tris/PBS-based buffer containing 5-50% glycerol. Lyophilized form: Tris/PBS-based buffer containing 6% trehalose before lyophilization.
Function	Recombinant partial sph2 target protein; enzymatic activity of this preparation has not been tested.
Targets	sph2
Endotoxin Level	Not tested
Amino Acid Sequence	LSHNVFMLPTNLPWGNLGHDERAKRISKSDYVKNQDVIVFEEAFDTSARKILLDNLREEYPYQTDVVGRTKKNWDASLGNFRSYSLVNGGVILSKWPIEEKIQYIFNDSGCGADWFANKGFVYVKINKEGKKFHVIGTHAQSQDQNCNLGIF
Quality	Purity: ≥90% by SDS-PAGE Activity: Not tested Endotoxin: Not tested
Notes	Protein length: partial. UniProt accession: P59116. Expression region: 158-433 aa.

Usage and Packaging

Package	20 µg 100 µg 1 mg
Reconstitution	Briefly centrifuge the vial before opening. Reconstitute lyophilized protein in sterile deionized water to 0.1-1.0 mg/mL. For long-term storage, add glycerol to a final concentration of 5-50%, divide into aliquots.

Storage and Shipping Information

Storage	Store at -20°C or -80°C after receipt. Divide into aliquots for repeated use and avoid repeated freeze-thaw cycles. Working aliquots may be kept at 4°C for up to one week.
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