

Recombinant Rat Smpd2 protein, His & GST-tagged

Cat. No. Smpd2-8254R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Smpd2 aa. (Met1~Ala324 (Accession # Q9ET64)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Rat
Source	E.coli
ProteinLength	Met1~Ala324
Description	Catalyzes the Mg ²⁺ dependent hydrolysis of sphingomyelin to form N-acylsphingosine and choline phosphate; also has a lower activity for the hydrolysis of lyso-platelet activating factor to 1-alkylglycerol.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 66.9kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 7.3.
Applications	SDS-PAGE; WB; ELISA; IP.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

GENE INFORMATION

Gene Name	Smpd2 sphingomyelin phosphodiesterase 2 [Rattus norvegicus (Norway rat)]
Official Symbol	Smpd2
Synonyms	Smpd2; sphingomyelin phosphodiesterase 2; nSMase; N-SMase; lyso-PAF-PLC; lyso-platelet-activating factor-phospholipase C; neutral sphingomyelinase; sphingomyelin phosphodiesterase 2, neutral membrane
Gene ID	83537
mRNA Refseq	NM_031360.2
Protein Refseq	NP_112650.1

 Tel: 1-631-559-9269 1-516-512-3133

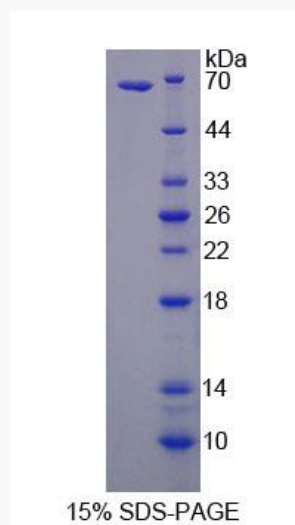
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID

Q9ET64

SDS-PAGE

 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA