

Acid sphingomyelinase/SMPD1 Protein, Human, Recombinant (His)

General Information

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| Synonyms: | ASMASE;ASM;NPD |
| Protein Construction: | Met1-Pro628 |
| Species: | Human |
| Expression Host: | Baculovirus-Insect Cells |
| Accession: | NP_000534.3 |
| Molecular Weight: | 66.53 kDa (Predicted); 67-70 kDa (Reducing conditions due to glycosylation) |

QC Testing

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| Biological Activity: | Measured by its ability to cleave 2-N-Hexadecanoylamino-4-nitrophenylphosphorylcholine (HNPPC). The specific activity is > 1500 pmol/min/μg. (QC Test) |
| Purity: | > 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Supplied as 0.22 μm filtered solution in 20 mM Tris, 500 mM NaCl, 25% glycerol (pH 7.5). |

Preparation and Storage

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Solutions are shipped with dry ice.

Protein Background

Sphingomyelin phosphodiesterase 1 (SMPD1) converts sphingomyelin into ceramide and phosphocholine; hence, loss of SMPD1 function causes abnormal accumulation of sphingomyelin in lysosomes, which results in the lipid-storage disorder Niemann-Pick disease (types A and B). SMPD1 activity is dependent on zinc, which is coordinated at the active site of the enzyme.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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