

Human SMPDL3A Protein (His Tag)

Catalog Number: 13559-H08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

ASM3A; ASML3a; yR36GH4.1

Protein Construction:

A DNA sequence encoding the human SMPDL3A (Q92484) (Met1-Tyr453) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Leu 23

Molecular Mass:

The recombinant human SMPDL3A consists of 442 amino acids and predicts a molecular mass of 50.3 KDa. It migrates as an approximately 51 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

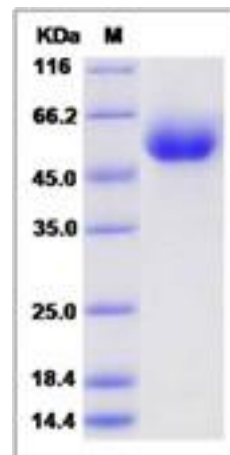
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

SMPDL3A gene is a novel liver X receptor (LXR) -regulated gene, with an LXR response element within its promoter. The induction of SMPDL3A is LXR-dependent and is restricted to human blood cells with no induction observed in mouse cellular systems. LXR α and LXR β function as physiological sensors of cholesterol metabolites (oxysterols), regulating key genes involved in cholesterol and lipid metabolism. LXRs have been extensively studied in both human and rodent cell systems, revealing their potential therapeutic value in the contexts of atherosclerosis and inflammatory diseases. The LXR genome landscape has been investigated in murine macrophages but not in human THP-1 cells, which represent one of the frequently used monocyte/macrophage cell systems to study immune responses.

References

1. Wright KO, *et al.* (2002) Increased expression of the acid sphingomyelinase-like protein ASML3a in bladder tumors. *J Urol.* 168(6):2645-9.
2. Strausberg RL, *et al.* (2002) Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc Natl Acad Sci.* 99(26):16899-903.
3. Mungall AJ, *et al.* (2003) The DNA sequence and analysis of human chromosome 6. *Nature.* 425(6960):805-11.

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