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Datasheet for ABIN1691722

SMPDL3A Protein (AA 23-453) (His tag)

Overview

Quantity:	50 µg
Target:	SMPDL3A
Protein Characteristics:	AA 23-453
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMPDL3A protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ASM-Like Phosphodiesterase 3a/SMPDL3A (C-6His)
Sequence:	LPVAPAGGRN PPPAIGQFWH VTDLHLDPTY HITDDHTKVC ASSKGANASN PGPFGDVLCDS SPYQLILSAF DFIKNSGQEA SFMIWTGDSP PHVPVPELST DTVINVITNM TTTIQSLFPN LQVFPALGNH DYWPQDQLPV VTSKVYNANA NLWKPWLDEE AISTLRKGGF YSQKVTTNPN LRIISLNTNL YYGPNIMTLN KTDPANQFEW LESTLNNSQQ NKEKVYIIAH VPGVYLPSSQ NITAMREYYN EKLIDIFQKY SDVIAGQFYG HTHRDSIMVL SDKKGSPVNS LRVAPAVTPV KSVLEKQTNN PGIRLFQYDP RDYKLLDMLQ YYLNLTEANL KGESIWKLEY ILTQTYDIED LQPESLYGLA KQFTILDSKQ FIKYYNYFFV SYDSSVTC DK TCKAFQICAI MNLDNISYAD CLKQLYIKHN YVDHHHHHHH
Characteristics:	Recombinant Human Acid sphingomyelinase-like phosphodiesterase 3a/SMPDL3A is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Leu23-Tyr453) of Human SMPDL3A fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	SMPDL3A
Alternative Name:	SMPDL3A (SMPDL3A Products)
Sub Type:	Fusionprotein
Background:	<p>Acid sphingomyelinase-like phosphodiesterase 3a (SMPDL3A) 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 and LXR 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.</p> <p>Alternative Names:</p>
Molecular Weight:	49.9 kDa
UniProt:	Q92484

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Handling

Storage:	4 °C/-20 °C/-80 °C
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Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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Expiry Date:	5 months
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