

Recombinant Mouse SMPDL3A Protein (His Tag)

Catalog Number:PKSM040325



Note: Centrifuge before opening to ensure complete recovery of vial contents.

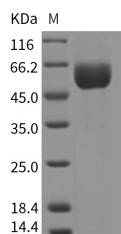
Description

Synonyms	0610010C24Rik;AI529588;ASM3A;ASML3;ASML3A
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met1-Leu445
Accession	NP_065586.3
Calculated Molecular Weight	49.1 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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.

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