Recombinant Human SMPDL3A Protein (His Tag)

Catalog Number:PKSH033291

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

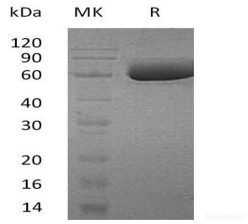
Description

Synonyms	Acid Sphingomyelinase-Like Phosphodiesterase 3a;ASM-Like Phosphodiesterase 3a;SMPDL3A;ASML3A
Species	Human
Expression Host	HEK293 Cells
Sequence	Leu23-Tyr453
Accession	Q92484
Calculated Molecular Weight	49.9 kDa
Observed molecular weight	59 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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 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

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 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.

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