



Recombinant Protein Technical Manual

Recombinant Human SMPDL3A Protein (His Tag)

RPES1319

Product Data:

Product SKU: RPES1319

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q92484

Protein Information:

Molecular Mass: 49.9 kDa

AP Molecular Mass: 49.9 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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 a 0.2 µm filtered solution of PBS, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Acid Sphingomyelinase-Like Phosphodiesterase 3a; ASM-Like Phosphodiesterase 3a; SMPDL3A; ASML3A

Immunogen Information:

Sequence: Leu23-Tyr453

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.