

**Recombinant Human SMPDL3A Protein (His Tag)**

**Cat.NO.: TP06937**

3th Edition

**Synonyms:**ASM3A;ASML3a;yR36GH4.1

**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 ? 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.

**Form:**PBS

**Molecular Weight:**50.3 kDa

**Sequences:**Met 1-Tyr453

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.