

ABCA1 Protein, Human (Sf9, His, Strep, FLAG)

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| Cat. No.: | HY-P701357 |
| Synonyms: | ABCA1; ABC1; CERP |
| Species: | Human |
| Source: | Sf9 insect cells |
| Accession: | O95477 (A2-V2261) |
| Gene ID: | 19 |
| Molecular Weight: | |

PROPERTIES

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| Appearance | Solution. |
| Formulation | Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | Please use rapid thawing with running water to thaw the protein. |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice. |

DESCRIPTION

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| Background | ABCA1 protein functions as a crucial catalyst in the translocation of specific phospholipids from the cytoplasmic to the extracellular/luminal leaflet of the membrane, a process driven by ATP hydrolysis. This activity is integral to the transfer of phospholipids to apolipoproteins, leading to the formation of nascent high-density lipoproteins (HDLs). ABCA1 exhibits a preference for transporting phosphatidylcholine over phosphatidylserine and may play a similar role in the efflux of intracellular cholesterol to apolipoproteins, contributing to the generation of nascent HDLs. The mechanism involves the translocation of phospholipids from the outer face of the plasma membrane, forcing them through its gateway and annulus into an elongated hydrophobic tunnel in its extracellular domain. This intricate process is essential for the regulation of lipid homeostasis and the maintenance of cellular and systemic lipid balance. |
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Caution: Product has not been fully validated for medical applications. For research use only.

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