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Product name	Human Apolipoprotein AI
Catalog number	AP176840
Uniprot ID	P02647

Product description

Human apolipoprotein A1 (APO-A1) functions as structural protein components of lipoproteins. APOs are critical in lipid transportation and metabolism and are closely related with onset of atherosclerosis, diabetes and cardiovascular diseases. In Parkinson's disease low levels of APO-AI seems to be related with lower risk of developing the pathology (1) .

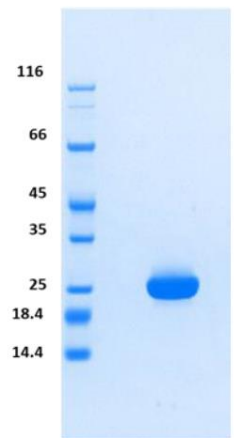
Protein sequence

GDEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKLLDNWDSVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDL
EEVKAKVQPYLDDFQKKWQEEMELYRQKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRQRLAARLEALK
ENGGARLAEYHAKATEHLSTLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQ

Product features and protocols

Purity

>90%
as determined by SDS-PAGE



SDS-PAGE gel analysis of APO-A1 protein in Reducing/Heated conditions (RH) and stained with Coomassie blue.

Other features

Predicted MW	28.14 kDa
Expression System	*E. Coli*
Purification Tag	No tag
Protein content	Quantitation is carried out by Bradford protein assay using BSA as standard.
Formulation	Lyophilized from 50 mM Tris HCl, 0.3 M NaCl, pH 8.0 buffer

Product preparation

For product preparation we recommend the following steps:

1. Briefly centrifuge the tube before opening
2. Reconstitute by adding the appropriate volume of ultrapure water for a final concentration of 200 µg/ml (e.g. 50 µl for 10 µg or 250 µl for 50 µg conditioning)
3. Vortex gently to insure complete dissolution
4. Wait 15 minutes at Room temperature before proceeding further
5. Vortex gently again and centrifuge **briefly**

Product storage

The product is lyophilized and shipped at room temperature. **Store at -80 °C upon receipt.**
After reconstitution, the protein can be preserved at 4°C for a few weeks.

Avoid multiple freeze-thaw cycles

The product is intended for research use only. Not for diagnostic or therapeutic use.

1. **Lin Li** Relationship between Apolipoprotein Superfamily and Parkinson's Disease Chin Med J (Engl). 2017 Nov 5; 130(21): 2616