

Datasheet for ABIN7561532

LRAT Protein (AA 1-231) (His tag)



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Overview

Quantity:	1 mg
Target:	LRAT
Protein Characteristics:	AA 1-231
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRAT protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Lrat Protein expressed in mammalian cells.
Sequence:	<p>MKNPMLEAAS LLEKLLIS NFKLFSVSV GGGTGKNRPY EISSFVRGDV LEVSRTHFIH YGIYLGENV AHLMPDILLA LTNDKERTQK VVSNKRLLLG VICKVASIRV DTVEDFAYGA DILVNHLDGT LKKKSLNNE VARRAEQQLG LTPYSLLWNN CEHFVITYCRY GSRISPQAEK FYDTVKIIIR DQRSSLASAV LGLASIVYTG LASYMTLPAI CIPFCLWMMS G Sequence without tag.</p> <p>The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	LRAT
Alternative Name:	Lrat (LRAT Products)
Background:	<p>Lecithin retinol acyltransferase (EC 2.3.1.135) (Phosphatidylcholine--retinol O-acyltransferase) (Phosphatidylcholine-retinol-O-acyltransferase),FUNCTION: Transfers the acyl group from the sn-1 position of phosphatidylcholine to all-trans retinol, producing all-trans retinyl esters. Retinyl esters are storage forms of vitamin A (PubMed:28758396). LRAT plays a critical role in vision (By similarity). It provides the all-trans retinyl ester substrates for the isomerohydrolase which processes the esters into 11-cis-retinol in the retinal pigment epithelium, due to a membrane-associated alcohol dehydrogenase, 11 cis-retinol is oxidized and converted into 11-cis-retinaldehyde which is the chromophore for rhodopsin and the cone photopigments (By similarity). Required for the survival of cone photoreceptors and correct rod photoreceptor cell morphology (PubMed:25416279). {ECO:0000250 UniProtKB:O95237, ECO:0000269 PubMed:25416279, ECO:0000269 PubMed:28758396}.</p>
Molecular Weight:	25.8 kDa
UniProt:	Q9JI60

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months