

Retinoid isomerohydrolase

Catalog No: #AP79492

Package Size: #AP79492-1 50ug #AP79492-2 100ug #AP79492-3 1mg

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Description

Product Name	Retinoid isomerohydrolase
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Human
Immunogen Description	283-380AA
Other Names	All-trans-retinyl-palmitate hydrolase, Retinal pigment epithelium-specific 65 kDa protein, Retinol isomerase
Accession No.	Q16518Gene name:RPE65
Uniprot	Q16518
GeneID	6121;
Calculated MW	10.78
Tag Info	His
Formulation	50mM NaH ₂ PO ₄ , 500mM NaCl Buffer with 500mM Imidazole, 10%glycerol(PH8.0)
Storage	Store at -20C. (Avoid repeated freezing and thawing.)Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Plays important roles in the production of 11-cis retinal and in visual pigment regeneration. The soluble form binds vitamin A (all-trans-retinol), making it available for LRAT processing to all-trans-retinyl ester. The membrane form, palmitoylated by LRAT, binds all-trans-retinyl esters, making them available for IMH (isomerohydrolase) processing to all-cis-retinol. The soluble form is regenerated by transferring its palmitoyl groups onto 11-cis-retinol, a reaction catalyzed by LRAT. The enzymatic activity is linearly dependent of the expression levels and membrane association.

References

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Note: This product is for in vitro research use only