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- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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ELOVL4 Blocking Peptide

BACKGROUND

Mutations in elongation of very long-chain fatty acid-4 (ELOVL4) are associated with autosomal dominant Stargardt-like macular degeneration (STGD3), with a five base-pair (5 bp) deletion mutation resulting in the loss of 51 carboxy-terminal amino acids and truncation of the protein. Elovl4 is expressed in the retina and only a limited number of mammalian other tissues, including skin, with unknown function. In a mouse model with the 5-bp deletion in the Elovl4 gene, mice in the heterozygous state (Elovl4(+/del)) demonstrate progressive photoreceptor degeneration. Homozygous mice (Elovl4(del/del)) display scaly, wrinkled skin, have severely compromised epidermal permeability barrier function, and die within a few hours after birth. Lipid analyses of epidermis from Elovl4 (del/del) mice show a decrease in very long-chain fatty acids (VLFAs) in both the ceramide/glucosylceramide and the free fatty-acid fractions. ELOVL4 is required for generating VLFA critical for epidermal barrier function.

ORDERING INFORMATION

CATALOG NUMBER
X2382B

SIZE
50 μ g

CUSTOMER STORAGE
Product should be stored at -20°C.
Aliquot to avoid freeze/thaw cycles

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

SHIP CONDITIONS
Ship on gel ice, store at -20°C immediately upon arrival

STABILITY
Products are stable for one year from purchase when stored properly

COMMENTS

For use with ELOV4 polyclonal antibodies (Cat. No. X2087P & X2381P).

INSTRUCTIONS

Incubate antibody neat with at least a 50 fold stoichiometric excess of blocking peptide at 37 deg C for 20 minutes (molecular weights of peptide and antibody are ~2.5 kDa and ~160 kDa, respectively). Antibody can then be diluted to a concentration suitable for Western blot.

Example: 10 μ l or 10 μ g of Exalpha's rabbit anti-ELOV4 (Cat. No. X2087P) is added to 10 μ g of blocking peptide for a total volume of 20 μ l. The mixture is allowed to incubate for 20 minutes at 37 deg C prior to dilution in suitable buffer (for Western blot, etc.).