Active Native Goat KERA protein

Cat. No. KERA-01G **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Goat KERA protein isolated from goat cornea.
Species	Goat
Source	Goat cornea
ProteinLength	352aa
Description	Keratan sulfate (KS) is a special glycosaminoglycan (GAG) found in cornea, cartilage and bone (1). GAGs are a group of linear polysaccharides with different repeating disaccharide units. Other GAGs include heparin, heparan sulfate (HS), chondroitin sulfate (CS), dermatan sulfate (DS), and hyaluronan (HA). Proteoglycans refer to GAG-protein conjugates. Known KS proteoglycans include lumican, keratocan, mimecan, aggrecan and fibromodulin.
Form	Supplied as a 0.2 μm filtered solution in deionized water.
Bio-activity	Measured by its ability to act as a substrate for Recombinant F. keratolyticus Endo-beta-galactosidase. >90% of Keratan Sulfate Proteoglycans can be cleaved under the described conditions.
Molecular Mass	30-300 kDa
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.

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Purity	>90%
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 month, -20 to -70 centigrade under sterile conditions after opening. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	KERA keratocan [Capra hircus (goat)]
Official Symbol	KERA
Synonyms	Keratan Sulfate Proteoglycans
Gene ID	102175745
mRNA Refseq	XM_005679809.2
Protein Refseq	XP_005679866.1
MIM	603288
UniProt ID	A0A8C2RHB5

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