

Recombinant Human MYOC protein, His-tagged

Cat. No. MYOC-6991H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYOC (Arg33-Met504) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
Protein Length	Arg33-Met504
Description	<p>Myocilin, trabecular meshwork inducible glucocorticoid response is also known as MYOC, GLC1A, GPOA, JOAG, JOAG1, TIGR. Myocilin/MYOC contains one olfactomedin-like domain. Myocilin is believed to have a role in cytoskeletal function. MYOC is expressed in many ocular tissues, including the trabecular meshwork, and was revealed to be the trabecular meshwork glucocorticoid-inducible response protein (TIGR). The trabecular meshwork is a specialized eye tissue essential in regulating intraocular pressure, and mutations in MYOC have been identified as the cause of hereditary juvenile-onset open-angle glaucoma.</p>
Predicted N Terminal	Arg33
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 32 kDa. The protein migrates as 33 kDa under reducing (R) condition (SDS-PAGE) due to most of the MYOC was cleaved at Glu 214, generating a C-terminal fragment.

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	MYOC
Official Symbol	MYOC
Synonyms	MYOC; myocilin, trabecular meshwork inducible glucocorticoid response; GLC1A; myocilin; JOAG1; TIGR; mutated trabecular meshwork-induced glucocorticoid response protein; GPOA; JOAG
Gene ID	4653
mRNA Refseq	NM_000261
Protein Refseq	NP_000252
MIM	601652

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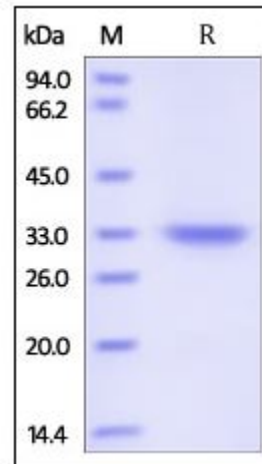
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UniProt ID

Q99972

SDS-PAGE of MYOC-6991H



Human Myocilin, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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