

Recombinant Human MYO1G Protein (Gly769-Pro1016), His tagged

Cat. No. MYO1G-3641H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MYO1G (Gly769-Pro1016) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly769-Pro1016
Description	Unconventional myosin required during immune response for detection of rare antigen-presenting cells by regulating T-cell migration. Unconventional myosins are actin-based motor molecules with ATPase activity and serve in intracellular movements. Acts as a regulator of T-cell migration by generating membrane tension, enforcing cell-intrinsic meandering search, thereby enhancing detection of rare antigens during lymph-node surveillance, enabling pathogen eradication. Also required in B-cells, where it regulates different membrane/cytoskeleton-dependent processes. Involved in Fc-gamma receptor (Fc-gamma-R) phagocytosis.
Molecular Mass	29.59 kDa
Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.

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Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	MYO1G myosin IG [Homo sapiens (human)]
Official Symbol	MYO1G
Synonyms	HA2; MHAG
Gene ID	64005
mRNA Refseq	NM_033054
Protein Refseq	NP_149043
MIM	613445
UniProt ID	B0I1T2

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