

Active Recombinant Human DAG1 Protein (Gln28-Val749), C-Fc-tagged

Cat. No. DAG1-09H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Dystroglycan (Gln28-Val749) protein with a Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Human embryonic kidney cell.
Species	Human
Source	HEK293
ProteinLength	Gln28-Val749
Description	This gene encodes dystroglycan, a central component of dystrophin-glycoprotein complex that links the extracellular matrix and the cytoskeleton in the skeletal muscle. The encoded preproprotein undergoes O- and N-glycosylation, and proteolytic processing to generate alpha and beta subunits. Certain mutations in this gene are known to cause distinct forms of muscular dystrophy. Alternative splicing results in multiple transcript variants, all encoding the same protein.
Form	Disulfide-linked homodimer
Bio-activity	Measured by the ability of the immobilized protein to enhance the adhesion of H4 human neuroglioma cells. The ED50 for this effect is 1.5-9 µg/mL.
Molecular Mass	Predicted Molecular Mass: 68 kDa (alpha subunit) & 37 kDa (beta subunit) SDS-PAGE: 70-100 kDa and 120-135 kDa (alpha subunit) & 45-55 kDa (beta subunit)

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N-terminal Sequence Analysis	Gln28 inferred from AA sequence (alpha subunit) & Ser654 (beta subunit)
Endotoxin	< 0.10/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 2 weeks, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 500 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	DAG1 dystroglycan 1 [Homo sapiens (human)]
Official Symbol	DAG1
Synonyms	DAG1; dystroglycan 1; A3a; DAG; AGRNR; 156DAG; MDDGA9; MDDGC7; MDDGC9; LGMDR16; dystroglycan 1; dystroglycan 1 (dystrophin-associated glycoprotein 1)
Gene ID	1605

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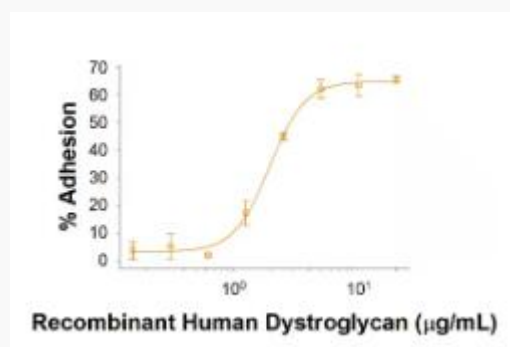
mRNA Refseq [NM_004393](#)

Protein Refseq [NP_004384](#)

MIM [128239](#)

UniProt ID [Q14118](#)

Bioactivity



Immobilized Recombinant Human Dystroglycan Fc Chimera enhances the adhesion of H4 human neuroglioma cells. The ED50 for this effect is 1.5-9 µg/mL.

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