

# Phase 3 Trial Investigating Impact of Intravenous Efgartigimod in Anti-Acetylcholine Receptor Antibody Negative Generalized Myasthenia Gravis

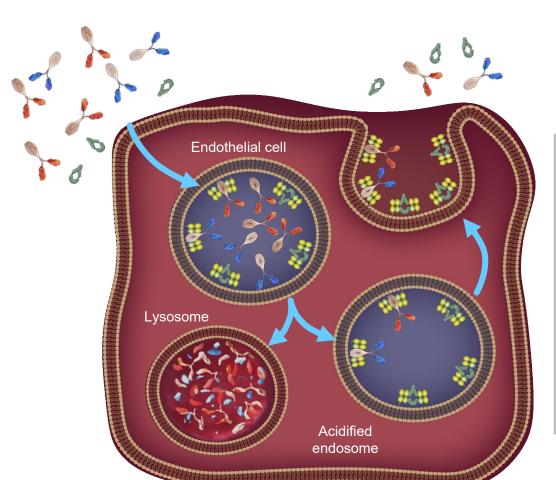


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### INTRODUCTION

## **Efgartigimod Mechanism of Action: Blocking FcRn**



- FcRn recycles IgG antibodies and albumin. This recycling and salvage from lysosomal degradation results in IgG antibodies having the longest half-life and being the most abundant of all immunoalobulins<sup>1-3</sup>
- Blocking FcRn to selectively reduce IgG levels is therefore a rational therapeutic approach in patients with IgG-mediated autoimmune diseases<sup>1,2</sup>
- Efgartigimod is an IgG1 antibody Fc fragment that has been engineered for increased affinity to FcRn, and is uniquely composed of the only part of the IgG antibody that normally
- Efgartigimod selectively reduces IgG by blocking FcRnmediated IgG recycling without impacting antibody production, albumin levels, or other parts of the immune system<sup>1,4,5</sup>
- Efgartigimod prevents IgG recycling by blocking IgG antibodies from binding to FcRn, with unbound IgG antibodies being degraded<sup>1,4</sup>

### **RATIONALE**

- gMG is a rare, chronic, neuromuscular autoimmune disease caused by pathogenic IgGs targeting the neuromuscular junction, resulting in impaired neuromuscular transmission and debilitating and potentially life-threatening muscle weakness and chronic fatigue<sup>6</sup>
- Approximately 15% of patients with gMG do not have antibodies directed against AChR, which is referred to as AChR-Ab- gMG<sup>7</sup>
- The AChR-Ab- gMG population is heterogeneous and includes patients with autoantibodies targeting other components of the neuromuscular junction, including MuSK and LRP48
- MuSK and LRP4 autoantibodies have been detected in ≈5%, and ≈1%-5% of patients with gMG, respectively, while ≈10% of patients have no identifiable autoantibodies<sup>6,7,9,10</sup>
- In all known subgroups of acquired AChR-Ab- gMG, the disease is considered IgG mediated<sup>7</sup>
- Treatment for patients with AChR-Ab- gMG predominantly consists of off-label drug use and efficacy has not been proven for immunosuppressive treatments such as corticosteroids and NSISTs<sup>11,12</sup>
- Patients with AChR-Ab- gMG are often either excluded from clinical trials or represent a small subpopulation of the enrolled population, which limits the ability to draw conclusions<sup>13-17</sup>
- Recent evidence suggests clinical outcomes for patients with AChR-Ab- gMG treated with currently available treatments are worse than for patients with AChR-Ab+ gMG<sup>18,19</sup>

**OBJECTIVE** 

To determine the efficacy and safety of 10 mg/kg IV efgartigimod compared with placebo in AChR-Ab- participants with gMG

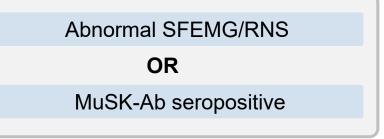
**ADAPT SERON (ARGX-113-2308) TRIAL DESIGN** 

Efgartigimod IV Randomized, Double-Blinded, Placebo-Controlled, Phase 3,

## **DESIGN**

### **INCLUSION CRITERIA**

- Has no known weakness in infancy and develops fatigable weakness ≥ age 16
- Confirmed diagnosis of acquired gMG that meets one of the criteria in both of the following:





History of positive edrophonium chloride test

- AChR-Ab seronegative at screening (MuSK-Ab+/LRP4-Ab+ allowed)
- MGFA Class II, III, or IV
- MG-ADL total score ≥5 (>50% nonocular)
- Stable dose of gMG therapy prior to screening<sup>a-t</sup>

aNSISTs initiated ≥6 months before screening with no change in dose during the 3 months before screening. bSteroids initiated ≥3 months before screening, with no change in dose during the month before screening. CAChEI with no change in dose during the 2 weeks before screening.

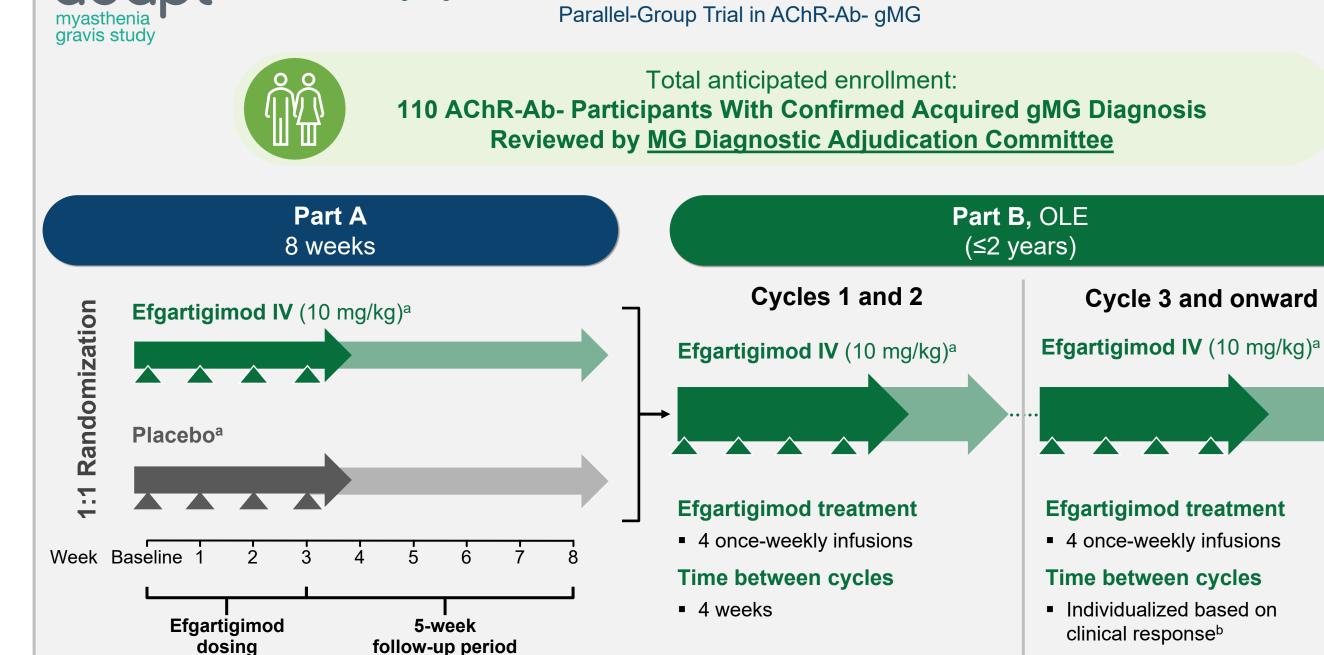
### **EXCLUSION CRITERIA**

- Total IgG <4 g/L at screening</p>
- Use of IVIg, SCIg, or intramuscular Ig within 4 weeks, any other investigational product within 3 months or 5 half-lives, monoclonal antibody within 6 months (eculizumab within 3 months), PLEX within 4 weeks, anti-CD20 or anti-CD19 antibody within 6 months, prior treatment with any CAR T-cell therapy or IL-6(R) inhibitor, prior treatment with an FcRn inhibitor
- Received a live or live-attenuated vaccine <4 weeks before screening</li>
- History of malignancy
- Adequately treated basal cell or squamous cell skin cancer, carcinoma in situ of the cervix or breast, or incidental histological findings of stage T1a or T1b prostate cancer are allowed
- Received a thymectomy <3 months before screening or thymectomy planned during study</li>
- Active infection
- Documented lack of clinical response to PLEX
- Severe renal impairment with eGFR <30 mL/min/1.73 m<sup>2</sup> at screening

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Demonstrated improvement in MG signs with treatments such as oral

AChE inhibitors, PLEX, immunoabsorption, or IVIg/SCIg treatment



<sup>a</sup>Triangles indicate efgartigimod or placebo administration. <sup>b</sup>Time between cycles will be no shorter than 7 days since previous efgartigimod IV infusion.

### AChEI, acetylcholinesterase inhibitor; AChR, acetylcholine receptor; AChR-Ab, acetylcholine receptor antibody; CAR, chimeric antigen receptor; eGFR, estimated glomerular filtration rate; EQ-5D-5L VAS, EuroQuol 5-Dimension 5-Level Visual Analog Scale; Fc, fragment crystallizable region; FcRn, neonatal Fc receptor; gMG, generalized myasthenia gravis; Ig, immunoglobulin; IL6(R), interleukin 6 receptor; IMP, investigational medicinal product; IV, intravenous; IVIg, intravenous Ig; LRP4, low-density lipoprotein receptor-related protein 4; LRP4-Ab+, low-density lipoprotein receptor-related protein 8; LRP4-Ab+, low-density lipoprotein receptor-related protein 8; LRP4-Ab+, low-density lipoprotein receptor-relate MG, myasthenia gravis; MG-ADL, Myasthenia Gravis Activities of Daily Living; MGFA, Myasthenia Gravis Foundation of America; MG-QoL15r, Myasthenia Gravis Quality of Life 15-Item Questionnaire, Revised; MSE, minimal symptom expression; MuSK, muscle-specific tyrosine kinase; MuSK-Ab, muscle-specific tyrosine kinase antibody; NSIST, nonsteroidal immunosuppressive therapy; OLE, open-label extension; PLEX, plasma exchange; QMG, Quantitative Myasthenia Gravis; RNS, repetitive nerve stimulation; SCIg, subcutaneous Ig; SFEMG, single-fiber electromyography.

(treatment cycle)

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## **SUMMARY**



ADAPT SERON is a randomized, double-blinded, placebo-controlled, phase 3, parallel-group trial evaluating efgartigimod IV in AChR-Ab- gMG



Participants will all have confirmed acquired gMG based on review of an **MG** Diagnostic Adjudication Committee



This phase 3 trial will provide important data on the efficacy and safety of efgartigimod IV in the treatment of AChR-Ab- gMG



Recruitment is ongoing

**Estimated primary completion** date: Summer 2025

### **ENDPOINTS**

## PRIMARY ENDPOINT

MG-ADL total score change from baseline to Day 29 (Week 4) in part A

## **SECONDARY ENDPOINTS**

### **Key Secondary Endpoints**

- QMG total score change from baseline to Day 29 (Week 4) in part A
- Proportion of participants who are both MG-ADL and QMG responders<sup>a,b</sup> in part A

### **Other Secondary Endpoints**

- Proportion of participants with MSE (defined as an MG-ADL total score of 0 or 1)
- Proportion of participants who are MG-ADL responders<sup>a</sup> or QMG responders<sup>b</sup>
- Proportion of participants who are early MG-ADL responders<sup>c</sup>
- MG-ADL and QMG total score actual value and change from baseline over time
- MG-QoL15r score change from baseline to Day 29 (Week 4) in part A
- MG-QoL15r and EQ-5D-5L VAS actual values and change from baseline over time
- Incidence and severity of adverse events, serious adverse events, laboratory test results, vital signs, and electrocardiogram results
- Total IgG concentration actual values and percent changes from baseline over time

aMG-ADL responder is defined as a participant achieving ≥2-point reduction in the MG-ADL total score compared to baseline that is maintained for the next 4 consecutive weeks, with the first reduction occurring no later than 1 week after the last administration of IMP in part A. bQMG responder is defined as a participant achieving ≥3-point reduction in the QMG score compared to baseline and maintained for the next 4 consecutive weeks, with the first reduction occurring no later than 1 week after the last administration of IMP in part A. ºEarly MG-ADL responder is defined as a participant having onset of MG-ADL response no later than 2 weeks after the first administration of

Scan here for more information on the ADAPT SERON website



