

# Ultragenyx (RARE)

## SA-ER Extension Data Look Promising But Regulatory Feedback Will Be Key

### Key Takeaway

**We expect RARE to initiate a phase 3 trial in 2015 with the 6g/day dose of SA-ER as data from the phase 2 extension study demonstrated that the 12g dose did not provide a clear advantage over the 6g dose in the overall population and was also associated with minor increases in GI tolerability issues while coming with a higher pill burden (24 vs 12 per day). The 12g dose in healthy naïve patients did provide additional evidence in support of SA-ER's potential.**

**Sialic acid extended release (SA-ER) data at the World Muscle Society (WMS) meeting over the weekend.** RARE presented results from a phase 2 extension study of SA-ER for the treatment of patients with hereditary inclusion body myopathy (HIBM). In the extension study, upper extremity composite (UEC) score was maintained to a greater degree in the 6g/12g combined groups when compared to the 3g/6g combined groups at 6 months. Extrapolating the available data to 2 years, the 6g group would have had a UEC decline of only -1.16 kg vs. an estimated -7.37 kg in placebo patients.

**12g/day UEC response data in healthy treatment naïve patients.** Data from 10 treatment naïve patients walking  $\geq$  200m at screening demonstrated a significant improvement in UEC muscle strength vs placebo (+3.47 vs -2.78kg) at 24 weeks. This dose is not being pursued given some of the potential disadvantages discussed above; however, given these positive data physicians/patients could still choose to use a higher dose when SA-ER is approved.

**Tolerability profile as expected.** In accordance with previous results, the most common treatment emergent AEs were GI related. Notably, flatulence and indigestion (e.g. dyspepsia) were markedly increased with 12g/day of SA-ER when compared to 6g/day.

**Regulatory feedback will be key moving forward.** We expect RARE to meet with the key regulatory authorities over the upcoming months to finalize the design for the phase 3 trial. We believe RARE will initiate a phase 3 trial with 6g/day SA-ER in ~80-100 HIBM patients ( $\geq$  200m in 6 minute walk test) in 2015 and propose UEC muscle strength as the primary endpoint. Management appears confident that regulatory authorities will agree to a muscle strength endpoint although the risk to requirement for only certain muscle groups in the composite or inclusion of the lower extremity composite where SA-ER did not have as much of an impact remains.

**HIBM opportunity.** RARE estimates that there are ~1,200 to 2,000 HIBM patients in the developed world of which 300-400 reside in the US. To date, RARE has identified >800 patients worldwide including >300 in the US. We estimate peak WW unadjusted sales of ~\$65M.

**BUY**

Price target \$74.00

Price \$49.90

**Ryan Martins \***

Equity Analyst

(415) 229-1582 rmartins@jefferies.com

\* Jefferies LLC

## Company Description

Ultragenyx Pharmaceutical, Inc. is a clinical-stage biotechnology company. The company is focused on the identification, acquisition, development, and commercialization of novel products for the treatment of rare and ultra-rare diseases, with an initial focus on serious, debilitating metabolic genetic diseases. Ultragenyx Pharmaceutical was founded by Emil D. Kakkis on April 22, 2010 and is headquartered in Novato, CA.

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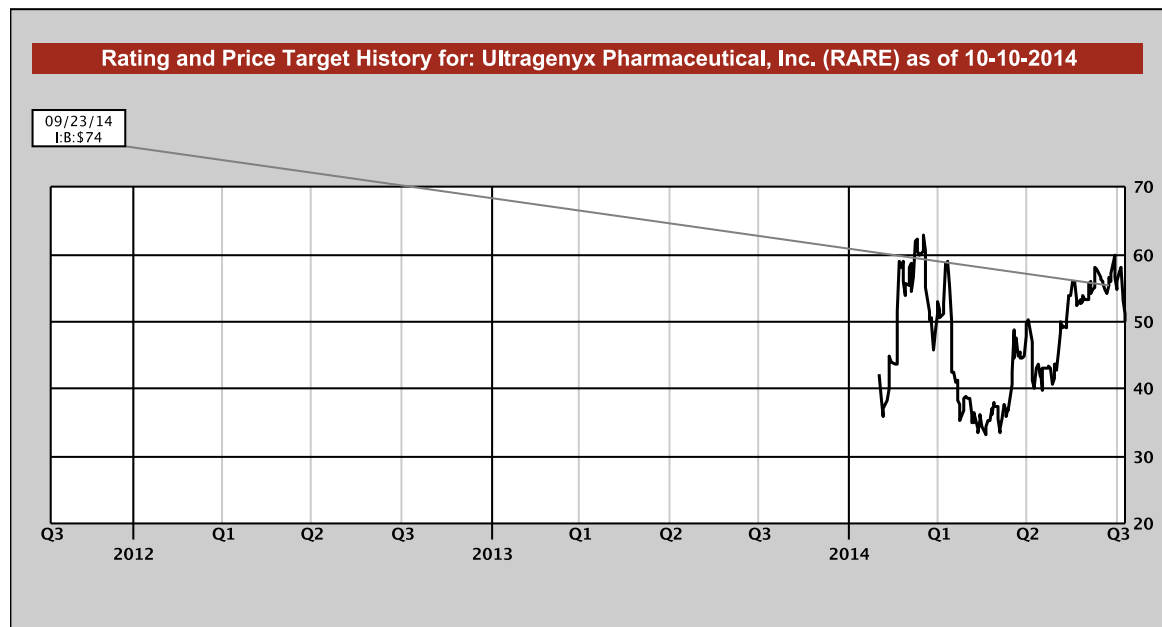
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