



## **Aldeyra Therapeutics Achieves Primary Endpoint in Phase 3 Dry Eye Disease Chamber Trial of Reproxalap and Plans NDA Resubmission**

May 5, 2025

**In a Dry Eye Chamber Trial, Reproxalap Was Statistically Superior (P=0.002) to Vehicle in Primary Endpoint of Ocular Discomfort**

**Aldeyra Believes the Dry Eye Chamber Trial Results, including No Notable Differences in Baseline Scores Across Treatment Arms, Potentially Address FDA Feedback following the Prior NDA Review**

**New Drug Application Resubmission Is Anticipated Mid-2025**

**A Recently Completed Dry Eye Disease Field Trial, which Was Numerically Supportive of Reproxalap and Consistent with Prior Field Trials, Did Not Reach Statistical Significance, and Is Expected to be Submitted to the Planned NDA Resubmission as Supportive**

LEXINGTON, Mass.--(BUSINESS WIRE)--May 5, 2025-- Aldeyra Therapeutics, Inc. (Nasdaq: ALDX) (Aldeyra), a biotechnology company devoted to discovering and developing innovative therapies designed to treat immune-mediated and metabolic diseases, today announced the achievement of the primary endpoint in a Phase 3 randomized, double-masked, vehicle-controlled dry eye chamber trial of 0.25% reproxalap ophthalmic solution, an investigational new drug candidate, for the treatment of dry eye disease. For the prespecified primary endpoint of ocular discomfort, a symptom of dry eye disease, reproxalap (n=58) was statistically significantly superior to vehicle (n=58) on ocular discomfort symptom score (0-100) from 80 to 100 minutes after chamber entry (LS mean difference [95% confidence interval] -6.5 [-10.5, -2.5], P=0.002).

Aldeyra believes that the dry eye chamber trial results, which included no notable differences in baseline scores across treatment arms, potentially address the U.S. Food and Drug Administration (FDA) feedback in a Complete Response Letter received in April 2025 in response to the prior New Drug Application (NDA). The Complete Response Letter identified concerns with a previously completed dry eye chamber trial that may have affected the interpretation of the results, including a baseline difference across treatment arms. Pending a Type A meeting with the FDA, NDA resubmission is anticipated mid-2025, and the review period is expected to be six months. A recently completed dry eye disease field trial, which was numerically supportive of reproxalap and consistent with prior field trials, did not reach statistical significance, and is expected to be submitted to the planned NDA resubmission as supportive.

"The dry eye chamber results announced today are representative of a number of clinical trials that highlight the potential rapid clinical effect of reproxalap on reducing ocular discomfort," stated Todd C. Brady, M.D., Ph.D., President and Chief Executive Officer of Aldeyra. "With no notable baseline differences across treatment arms and highly statistically significant results in favor of reproxalap over vehicle, Aldeyra believes the data potentially address the FDA feedback in the Complete Response Letter received last month and we look forward to meeting with the FDA shortly."

To Aldeyra's knowledge, in patients with dry eye disease, reproxalap is the first investigational drug with pivotal data supportive of acute and chronic activity in reducing symptoms, and the first investigational drug for chronic administration with pivotal data supportive of acute activity in reducing exacerbation of ocular redness. There were no safety signals or treatment-related discontinuations observed in either of the recently completed clinical trials, and reproxalap was observed to be well tolerated. Consistent with prior clinical trials, the most commonly reported adverse event was mild and transient instillation site discomfort. Reproxalap has now been studied in over 2,900 patients.

### **Conference Call & Webcast Information**

Aldeyra will host a conference call at 8:00 a.m. ET tomorrow, May 6, 2025, to discuss the clinical trial results and the plan for resubmission of the NDA for reproxalap in dry eye disease. The dial-in numbers are (833) 470-1428 for domestic callers and (404) 975-4839 for international callers. The access code is 127477. A live webcast of the conference call will be available on the Investor Relations page of the company's website at <https://ir.aldeyra.com>. After the live webcast, the event will remain archived on the Aldeyra Therapeutics website for 90 days.

### **About Reproxalap**

Reproxalap is an investigational new drug candidate in development for the treatment of dry eye disease and allergic conjunctivitis, two of the largest markets in ophthalmology. Reproxalap is a first-in-class small-molecule modulator of RASP, which are elevated in ocular and systemic inflammatory diseases. The mechanism of action of reproxalap has been supported by the demonstration of statistically significant and clinically relevant activity in multiple physiologically distinct late-phase clinical indications. Reproxalap has been studied in more than 2,900 patients with no observed safety concerns; mild and transient instillation site irritation is the most commonly reported adverse event in clinical trials.

### **About Aldeyra**

Aldeyra Therapeutics is a biotechnology company devoted to discovering innovative therapies designed to treat immune-mediated and metabolic diseases. Our approach is to develop pharmaceuticals that modulate protein systems, instead of directly inhibiting or activating single protein targets, with the goal of optimizing multiple pathways at once while minimizing toxicity. Our product candidates include RASP (reactive aldehyde species) modulators ADX-629, ADX-248, ADX-743, ADX-631, ADX-246, and chemically related molecules for the potential treatment of systemic and retinal immune-mediated and metabolic diseases. Our late-stage product candidates are reproxalap, a RASP modulator for the potential treatment of dry eye disease and allergic conjunctivitis, and ADX-2191, a novel formulation of intravitreal methotrexate for the potential treatment of retinitis pigmentosa.

### **Safe Harbor Statement**

This release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, including, but not limited to, statements regarding Aldeyra's future expectations, plans, and prospects, including without limitation statements regarding: the goals, opportunity, and potential for reproxalap; the outcome and expected timing of discussions with the FDA; the potential and the timing of a potential NDA resubmission; the outcome and timing of the FDA's acceptance, review, or approval of the potential NDA resubmission for reproxalap and the adequacy of the data included in the initial NDA and resubmitted NDA, and expected to be included in the potential resubmitted NDA; the likelihood and timing of the exercise of the Option; and Aldeyra's expectations regarding the labeling for reproxalap, if approved. Aldeyra intends such forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in Section 21E of the Securities Exchange Act of 1934 and the Private Securities Litigation Reform Act of 1995. In some cases, you can identify forward-looking statements by terms such as, but not limited to, "may," "might," "will," "objective," "intend," "should," "could," "can," "would," "expect," "believe," "anticipate," "project," "on track," "scheduled," "target," "design," "estimate," "predict," "contemplates," "likely," "potential," "continue," "ongoing," "aim," "plan," or the negative of these terms, and similar expressions intended to identify forward-looking statements. Such forward-looking statements are based upon current expectations that involve risks, changes in circumstances, assumptions, and uncertainties. Aldeyra is at an early stage of development and may not ever have any products that generate significant revenue. All of Aldeyra's development timelines may be subject to adjustment depending on recruitment rate, regulatory review, preclinical and clinical results, funding, and other factors that could delay the initiation, enrollment, or completion of clinical trials. Important factors that could cause actual results to differ materially from those reflected in Aldeyra's forward-looking statements include, among others, the timing of enrollment, commencement and completion of Aldeyra's clinical trials, the timing and success of preclinical studies and clinical trials conducted by Aldeyra and its development partners; delay in or failure to obtain regulatory approval of Aldeyra's product candidates, including as a result of the FDA not accepting Aldeyra's regulatory filings, issuing a complete response letter, or requiring additional clinical trials or data prior to review or approval of such filings or in connection with resubmissions of such filings; the ability to maintain regulatory approval of Aldeyra's product candidates, and the labeling for any approved products; the risk that prior results, such as signals of safety, activity, or durability of effect, observed from preclinical or clinical trials, will not be replicated or will not continue in ongoing or future studies or clinical trials involving Aldeyra's product candidates in clinical trials focused on the same or different indications; the scope, progress, expansion, and costs of developing and commercializing Aldeyra's product candidates; uncertainty as to Aldeyra's ability to commercialize (alone or with others) and obtain reimbursement for Aldeyra's product candidates following regulatory approval, if any; the size and growth of the potential markets and pricing for Aldeyra's product candidates and the ability to serve those markets; Aldeyra's expectations regarding Aldeyra's expenses and future revenue, the timing of future revenue, the sufficiency or use of Aldeyra's cash resources and needs for additional financing; the rate and degree of market acceptance of any of Aldeyra's product candidates; Aldeyra's expectations regarding competition; Aldeyra's anticipated growth strategies; Aldeyra's ability to attract or retain key personnel; Aldeyra's commercialization, marketing and manufacturing capabilities and strategy; Aldeyra's ability to establish and maintain development partnerships; Aldeyra's ability to successfully integrate acquisitions into its business; Aldeyra's expectations regarding federal, state, and foreign regulatory requirements; political, economic, legal, social, and health risks, public health measures, and war or other military actions, that may affect Aldeyra's business or the global economy; regulatory developments in the United States and foreign countries; Aldeyra's ability to obtain and maintain intellectual property protection for its product candidates; the anticipated trends and challenges in Aldeyra's business and the market in which it operates; and other factors that are described in the "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" sections of Aldeyra's Annual Report on Form 10-K for the year ended December 31, 2024, which is on file with the Securities and Exchange Commission (SEC) and available on the SEC's website at <https://www.sec.gov/>. Additional factors may be described in those sections of Aldeyra's Quarterly Report on Form 10-Q for the quarter ended March 31, 2025, expected to be filed with the SEC in the second quarter of 2025, and Aldeyra's other filings with the SEC.

In addition to the risks described above and in Aldeyra's other filings with the SEC, other unknown or unpredictable factors also could affect Aldeyra's results. No forward-looking statements can be guaranteed and actual results may differ materially from such statements. The information in this release is provided only as of the date of this release, and Aldeyra undertakes no obligation to update any forward-looking statements contained in this release on account of new information, future events, or otherwise, except as required by law.

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