



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

EMA/665846/2022

European Medicines Agency decision P/0274/2022

of 10 August 2022

on the agreement of a paediatric investigation plan and on the granting of a deferral and on the granting of a waiver for 2'-O-(2'-methoxyethyl) modified antisense oligonucleotide targeting prekallikrein mRNA (ISIS 721744), (EMEA-003112-PIP01-21) in accordance with Regulation (EC) No 1901/2006 of the European Parliament and of the Council

Disclaimer

This decision does not constitute entitlement to the rewards and incentives referred to in Title V of Regulation (EC) No 1901/2006.

Only the English text is authentic.



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The European Medicines Agency,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EC) No 1901/2006 of the European Parliament and of the Council of 12 December 2006 on medicinal products for paediatric use and amending Regulation (EEC) No. 1768/92, Directive 2001/20/EC, Directive 2001/83/EC and Regulation (EC) No 726/2004¹,

Having regard to Regulation (EC) No 726/2004 of the European Parliament and of the Council of 31 March 2004 laying down Union procedures for the authorisation and supervision of medicinal products for human use and establishing a European Medicines Agency²,

Having regard to the application submitted by Ionis Pharmaceuticals on 10 September 2021 under Article 16(1) of Regulation (EC) No 1901/2006 also requesting a deferral under Article 20 of said Regulation and a waiver under Article 13 of said Regulation,

Having regard to the opinion of the Paediatric Committee of the European Medicines Agency, issued on 24 June 2022, in accordance with Article 17 of Regulation (EC) No 1901/2006 and Article 21 of said Regulation and Article 13 of said Regulation,

Having regard to Article 25 of Regulation (EC) No 1901/2006,

Whereas:

- (1) The Paediatric Committee of the European Medicines Agency has given an opinion on the agreement of a paediatric investigation plan and on the granting of a deferral and on the granting of a waiver.
- (2) It is therefore appropriate to adopt a decision agreeing a paediatric investigation plan.
- (3) It is therefore appropriate to adopt a decision granting a deferral.
- (4) It is therefore appropriate to adopt a decision granting a waiver.

¹ OJ L 378, 27.12.2006, p.1, as amended.

² OJ L 136, 30.4.2004, p. 1, as amended.

Has adopted this decision:

Article 1

A paediatric investigation plan for 2'-O-(2'-methoxyethyl) modified antisense oligonucleotide targeting prekallikrein mRNA (ISIS 721744), solution for injection, subcutaneous use, the details of which are set out in the opinion of the Paediatric Committee of the European Medicines Agency annexed hereto, together with its appendices, is hereby agreed.

Article 2

A deferral for 2'-O-(2'-methoxyethyl) modified antisense oligonucleotide targeting prekallikrein mRNA (ISIS 721744), solution for injection, subcutaneous use, the details of which are set out in the opinion of the Paediatric Committee of the European Medicines Agency annexed hereto, together with its appendices, is hereby granted.

Article 3

A waiver for 2'-O-(2'-methoxyethyl) modified antisense oligonucleotide targeting prekallikrein mRNA (ISIS 721744), solution for injection, subcutaneous use, the details of which are set out in the opinion of the Paediatric Committee of the European Medicines Agency annexed hereto, together with its appendices, is hereby granted.

Article 4

This decision is addressed to Ionis Pharmaceuticals, 2855 Gazelle Court, 92010 Carlsbad, USA.



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

EMA/PDCO/190957/2022
Amsterdam, 24 June 2022

Opinion of the Paediatric Committee on the agreement of a Paediatric Investigation Plan and a deferral and a waiver

EMA-003112-PIP01-21

Scope of the application

Active substance(s):

2'-O-(2'-methoxyethyl) modified antisense oligonucleotide targeting prekallikrein mRNA (ISIS 721744)

Condition(s):

Treatment of hereditary angioedema

Pharmaceutical form(s):

Solution for injection

Route(s) of administration:

Subcutaneous use

Name/corporate name of the PIP applicant:

Ionis Pharmaceuticals

Basis for opinion

Pursuant to Article 16(1) of Regulation (EC) No 1901/2006 as amended, Ionis Pharmaceuticals submitted for agreement to the European Medicines Agency on 10 September 2021 an application for a paediatric investigation plan for the above mentioned medicinal product and a deferral under Article 20 of said Regulation and a waiver under Article 13 of said Regulation.

The procedure started on 19 October 2021.

Supplementary information was provided by the applicant on 2 March 2022. The applicant proposed modifications to the paediatric investigation plan.



Opinion

1. The Paediatric Committee, having assessed the proposed paediatric investigation plan in accordance with Article 17 of Regulation (EC) No 1901/2006 as amended, recommends as set out in the appended summary report:

- to agree the paediatric investigation plan in accordance with Article 17(1) of said Regulation;
- to grant a deferral in accordance with Article 21 of said Regulation;
- to grant a waiver for one or more subsets of the paediatric population in accordance with Article 13 of said Regulation and concluded in accordance with Article 11(1)(c) of said Regulation, on the grounds that the specific medicinal product does not represent a significant therapeutic benefit over existing treatments for paediatric patients.

The Paediatric Committee member of Norway agrees with the above-mentioned recommendation of the Paediatric Committee.

2. The measures and timelines of the agreed paediatric investigation plan and the subset(s) of the paediatric population and condition(s) covered by the waiver are set out in the Annex I.

This opinion is forwarded to the applicant and the Executive Director of the European Medicines Agency, together with its annex and appendix.

Annex I

The subset(s) of the paediatric population and condition(s) covered by the waiver and the measures and timelines of the agreed paediatric investigation plan (PIP)

1. Waiver

1.1. Condition:

Treatment of hereditary angioedema

The waiver applies to:

- the paediatric population from birth to less than 2 years;
- solution for injection, subcutaneous use;
- on the grounds that the specific medicinal product does not represent a significant therapeutic benefit as clinical studies are not feasible.

2. Paediatric investigation plan

2.1. Condition:

Treatment of hereditary angioedema

2.1.1. Indication(s) targeted by the PIP

Routine prevention of recurrent attacks of hereditary angioedema in patients aged 2 years and older

2.1.2. Subset(s) of the paediatric population concerned by the paediatric development

From 2 years to less than 18 years of age.

2.1.3. Pharmaceutical form(s)

Solution for injection

2.1.4. Measures

Area	Description
Quality-related studies	Not applicable
Non-clinical studies	Study 1 Definitive juvenile toxicity study in mice
Clinical studies	Study 2 - ISIS 721744-CS5 Double-blind, randomised, placebo-controlled trial to evaluate safety and efficacy of ISIS 721744 in adolescents from 12 years to less than 18 years of age (and adults) with hereditary angioedema (HAE) Study 3 - ISIS 721744 CS7 Open-label, follow-up trial to evaluate long-term safety and efficacy of ISIS 721744 in adolescents from 12 years to less

	<p>than 18 years of age (and adults) with hereditary angioedema (HAE)</p> <p>Study 4 - ISIS 721744-CS8</p> <p>Open-label, uncontrolled trial to evaluate safety, activity and pharmacokinetics (PK) of ISIS 721744 in children from 2 years to less than 12 years of age with hereditary angioedema (HAE)</p>
Extrapolation, modelling and simulation studies	<p>Study 5</p> <p>Modelling and simulation study to evaluate the use of ISIS 721744 in children from 2 years to less than 12 years of age with hereditary angioedema (HAE)</p>
Other studies	Not applicable
Other measures	Not applicable

3. Follow-up, completion and deferral of PIP

Concerns on potential long term safety/efficacy issues in relation to paediatric use:	No
Date of completion of the paediatric investigation plan:	By September 2026
Deferral for one or more measures contained in the paediatric investigation plan:	Yes