



EUROPEAN MEDICINES AGENCY  
SCIENCE MEDICINES HEALTH

EMA/415913/2020

## European Medicines Agency decision P/0365/2020

of 9 September 2020

on the agreement of a paediatric investigation plan and on the granting of a deferral and on the granting of a waiver for mitapivat (EMA-002684-PIP01-19) 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 726/2004<sup>1</sup>,

Having regard to Regulation (EC) No 726/2004 of the European Parliament and of the Council of 31 March 2004 laying down Community procedures for the authorisation and supervision of medicinal products for human and veterinary use and establishing a European Medicines Agency<sup>2</sup>,

Having regard to the application submitted by Agios Pharmaceuticals, Inc. on 24 October 2019 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 July 2020, 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.

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<sup>1</sup> OJ L 378, 27.12.2006, p.1.

<sup>2</sup> OJ L 136, 30.4.2004, p. 1.

Has adopted this decision:

**Article 1**

A paediatric investigation plan for mitapivat, film-coated tablet, age-appropriate oral solid dosage form, oral 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 mitapivat, film-coated tablet, age-appropriate oral solid dosage form, oral 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 mitapivat, film-coated tablet, age-appropriate oral solid dosage form, oral 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 Agios Pharmaceuticals, Inc., 88 Sidney Street, MA, 02139-4169 – Cambridge, United States.



EUROPEAN MEDICINES AGENCY  
SCIENCE MEDICINES HEALTH

EMA/PDCO/251280/2020  
Amsterdam, 24 July 2020

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

EMA-002684-PIP01-19

### Scope of the application

#### Active substance(s):

Mitapivat

#### Condition(s):

Treatment of pyruvate kinase deficiency

#### Pharmaceutical form(s):

Film-coated tablet

Age-appropriate oral solid dosage form

#### Route(s) of administration:

Oral use

#### Name/corporate name of the PIP applicant:

Agios Pharmaceuticals, Inc.

### Basis for opinion

Pursuant to Article 16(1) of Regulation (EC) No 1901/2006 as amended, Agios Pharmaceuticals, Inc. submitted for agreement to the European Medicines Agency on 24 October 2019 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 3 December 2019.

Supplementary information was provided by the applicant on 17 April 2020. 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 Norwegian Paediatric Committee member 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 pyruvate kinase deficiency

The waiver applies to:

- the paediatric population from birth to less than 1 year of age;
- film-coated tablet, oral use, age-appropriate oral solid dosage form, oral use;
- on the grounds that clinical studies with the specific medicinal product cannot be expected to be of significant therapeutic benefit to or fulfil a therapeutic need of the specified paediatric subset(s).

# 2. Paediatric investigation plan

## 2.1. Condition:

Treatment of pyruvate kinase deficiency

### 2.1.1. Indication(s) targeted by the PIP

Treatment of paediatric patients from 1 year to less than 18 years of age with pyruvate kinase deficiency

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

From 1 year to less than 18 years of age.

### 2.1.3. Pharmaceutical form(s)

Film-coated tablet

Age-appropriate oral solid dosage form

### 2.1.4. Measures

Area	Number of measures	Description
Quality-related studies	1	<b>Study 1</b> Development of an age-appropriate oral solid dosage form (coated granules) for use in paediatric patients unable to swallow the available tablets

<b>Area</b>	<b>Number of measures</b>	<b>Description</b>
Non-clinical studies	2	<p><b>Study 2</b></p> <p>Dose range-finding juvenile toxicity study to determine tolerability of mitapivat and to provide information for the selection of dose levels in the definitive juvenile toxicity study (AG348-N-101)</p> <p><b>Study 3</b></p> <p>Definitive juvenile toxicity study to determine potential toxic effects of mitapivat on juvenile development and toxicokinetic characteristics of mitapivat and its metabolite, AGI-8702 (AG348-N-102).</p>
Clinical studies	1	<p><b>Study 4</b></p> <p>Randomised, double-blind, placebo-controlled study to evaluate the efficacy and safety of mitapivat in regularly transfused paediatric subjects with pyruvate kinase deficiency followed by a 5-year open-label extension period to evaluate safety.</p>
Extrapolation, modelling and simulation studies	0	Not applicable.
Other studies	0	Not applicable.
Other measures	0	Not applicable.

### **3. Follow-up, completion and deferral of PIP**

Concerns on potential long term safety/efficacy issues in relation to paediatric use:	Yes
Date of completion of the paediatric investigation plan:	By December 2029
Deferral for one or more measures contained in the paediatric investigation plan:	Yes