

APHENITY Topline Results

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Patient Living
with PKU



Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. All statements contained in this presentation, other than statements of historic fact, are forward-looking statements, including statements with respect to the future expectations, plans and prospects for PTC, including with respect to the expected timing of clinical trials and studies, availability of data, regulatory submissions and responses and other matters, future operations, future financial position, future revenues, projected costs; and the objectives of management. Other forward-looking statements may be identified by the words, "guidance", "plan," "anticipate," "believe," "estimate," "expect," "intend," "may," "target," "potential," "will," "would," "could," "should," "continue," and similar expressions.

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As with any pharmaceutical under development, there are significant risks in the development, regulatory approval and commercialization of new products. There are no guarantees that any product will receive or maintain regulatory approval in any territory, or prove to be commercially successful, including sepiapterin.

The forward-looking statements contained herein represent PTC's views only as of the date of this presentation and PTC does not undertake or plan to update or revise any such forward-looking statements to reflect actual results or changes in plans, prospects, assumptions, estimates or projections, or other circumstances occurring after the date of this presentation except as required by law.

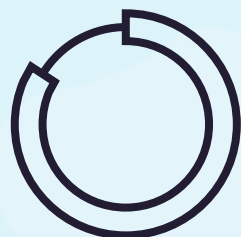
APHENITY Topline Results Demonstrate Clinical and Statistically Significant Benefit



Achieved primary endpoint in placebo-controlled portion of study with statistically significant ($p < 0.0001$) blood phenylalanine (Phe) reduction



Demonstrated substantial Phe reduction in both the overall primary analysis population (63%) and the subset of classical PKU patients (69%)

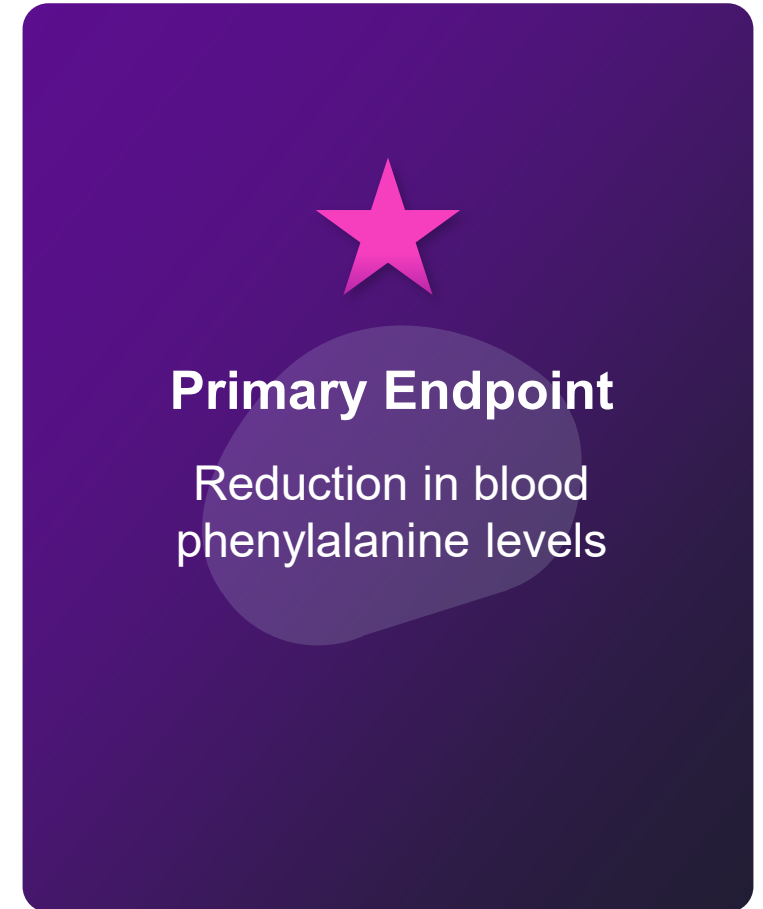
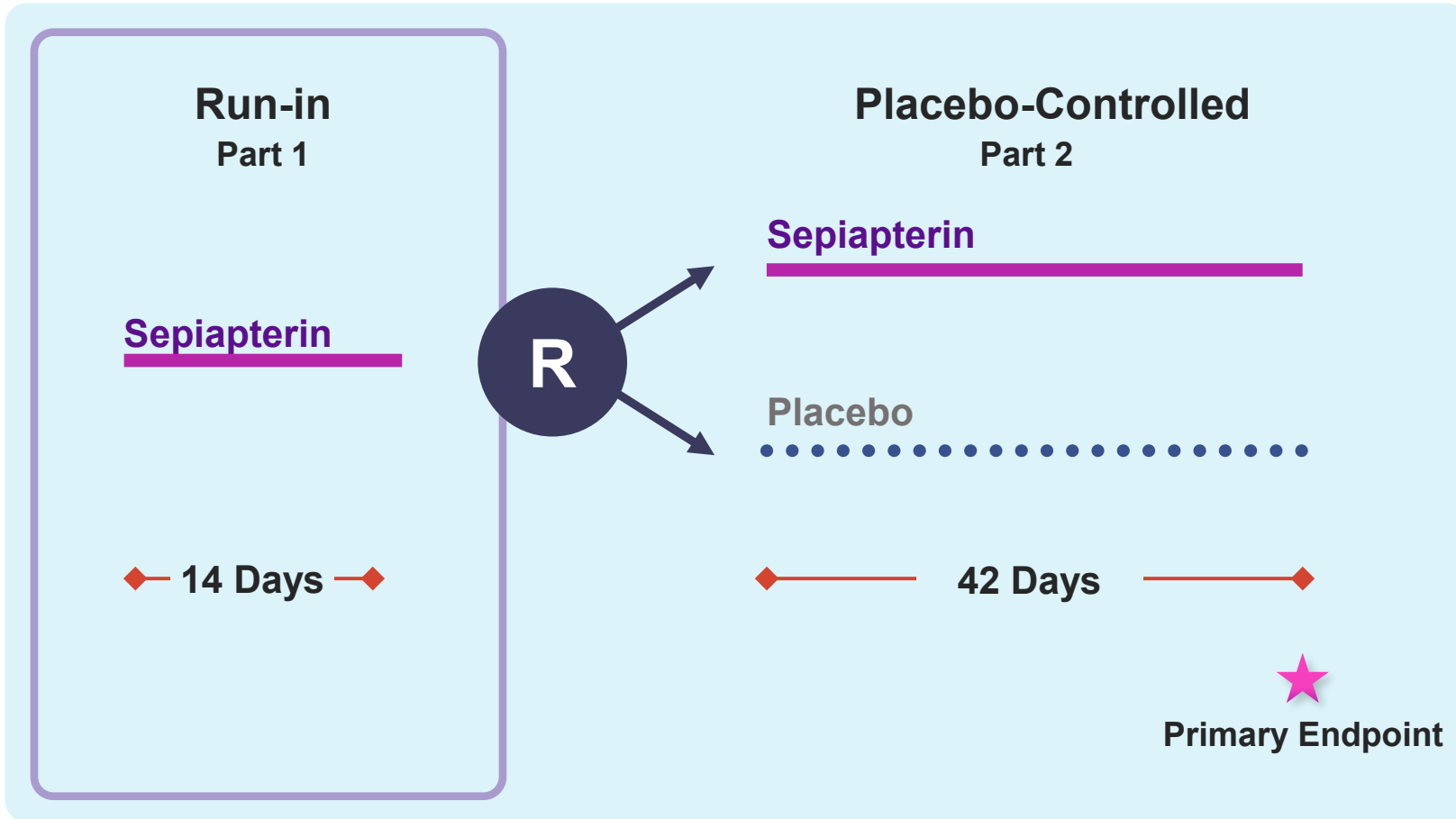


Achieved Phe reduction sufficient to bring **84%** of study patients within US guidelines for Phe reduction $< 360 \mu\text{mol/L}$



Well tolerated with no serious adverse events

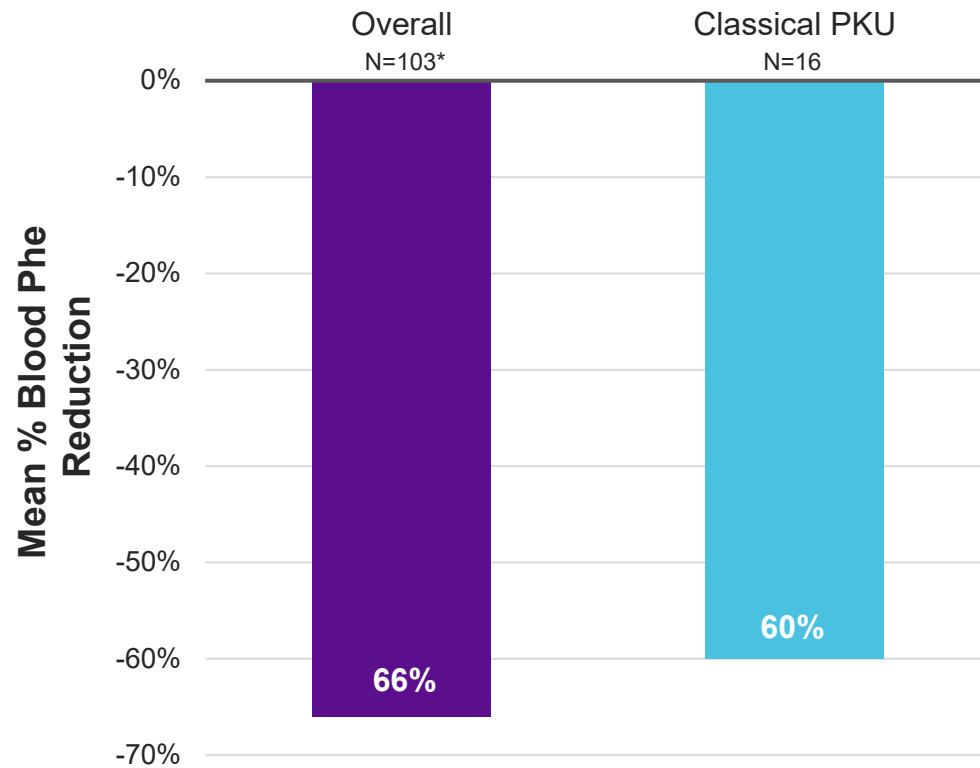
APHENITY Global Registration-Directed Trial of Sepiapterin Study Design



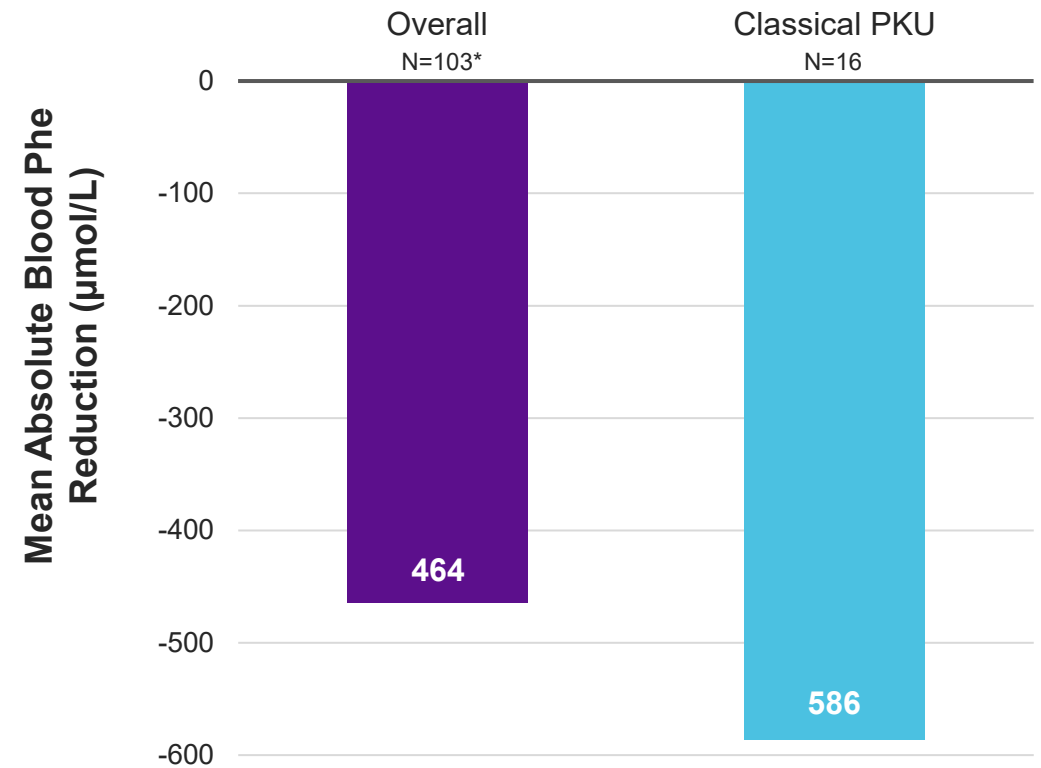
Primary Endpoint
Reduction in blood phenylalanine levels

APHENITY Part 1 Results Demonstrated Marked Blood Phe Reductions

Mean % Blood Phe Reduction
≥30% responders



Mean Absolute Blood Phe Reduction (μmol/L)
≥30% responders

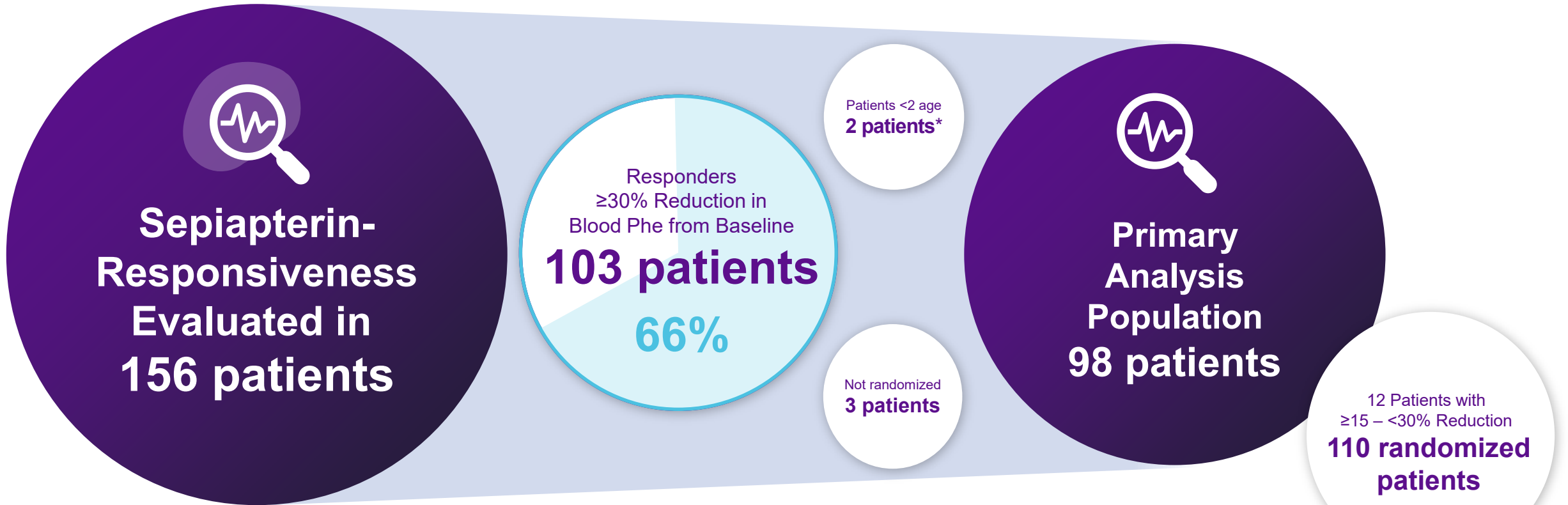


Baseline Phe Levels of Classical PKU Patients in Part 1



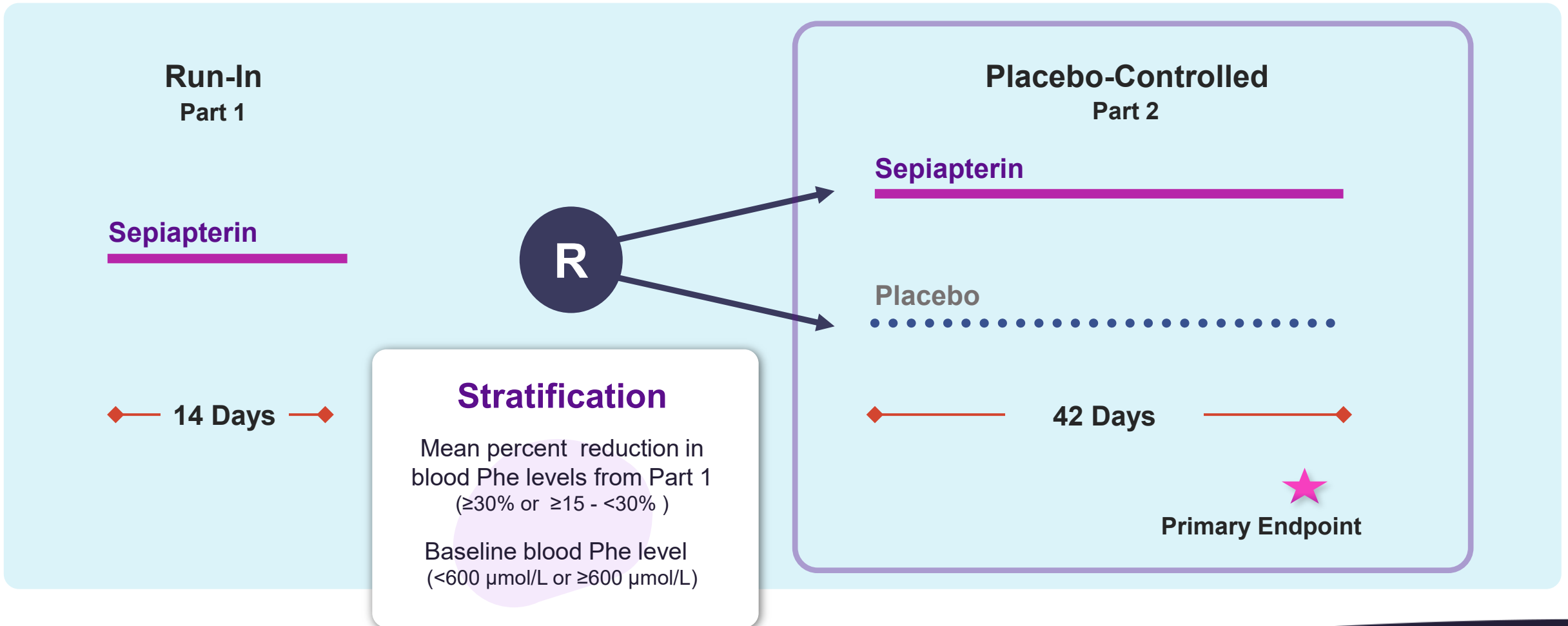
	Number of Patients	Baseline Phe (μmol/L)
>30% responders	16	978.6
15-30% responders	4	1,058.6
<15% responders	15	848.5
Total	35	928.6

APHENITY Study Population



*As per protocol this population entered directly into open label extension

APHENITY Global Registration-Directed Trial of Sepiapterin Study Design



APHENITY Primary Analysis Population Includes Full Spectrum of PKU Patients

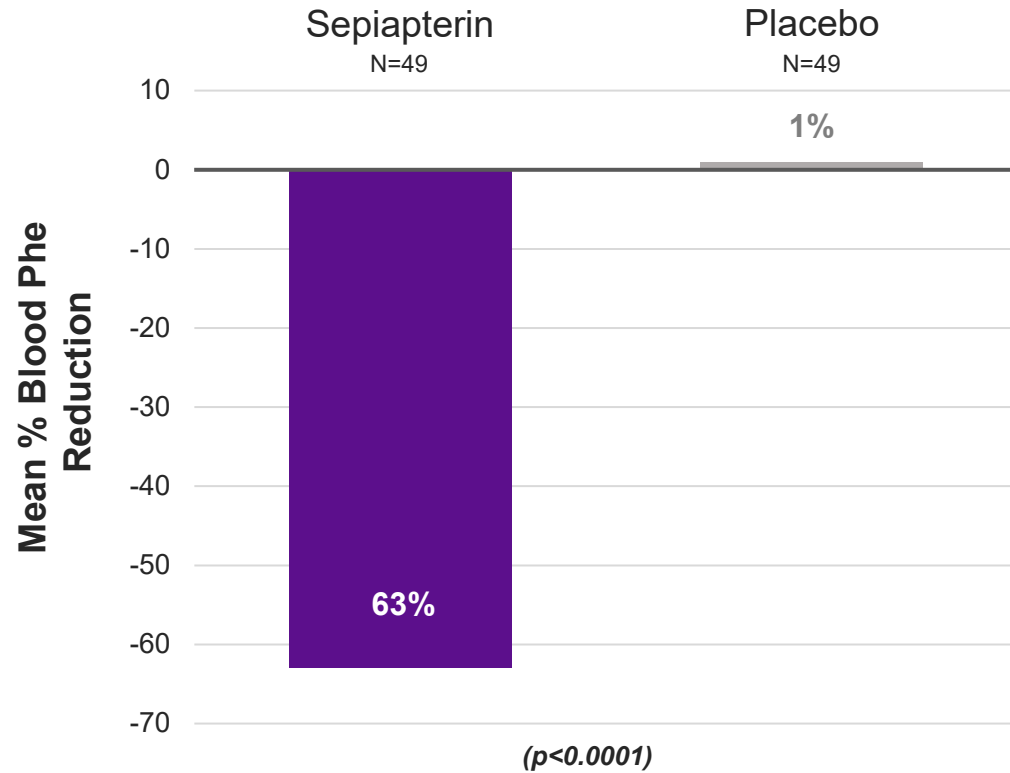


Baseline Characteristic	Sepiapterin (N=49)	Placebo (N=49)
Mean age at enrollment (yrs) [min, max]	16.3 [2, 47]	18.1 [4, 54]
2-17 (%)	34 (69.4)	31 (63.3)
≥18 years (%)	15 (30.6)	18 (36.7)
Sex: %F, %M	F: 46.9 M: 53.1	F: 55.1 M: 44.9
Mean Baseline Blood Phe (μmol/L) (min, max)	646.1 (179.5, 1350.0)	654.0 (289.5, 1650.0)
Mean Baseline Blood Phe in Classical PKU (μmol/L) (min, max)	761.25 (452.0, 1350.0)	771.56 (317.0, 1240.0)

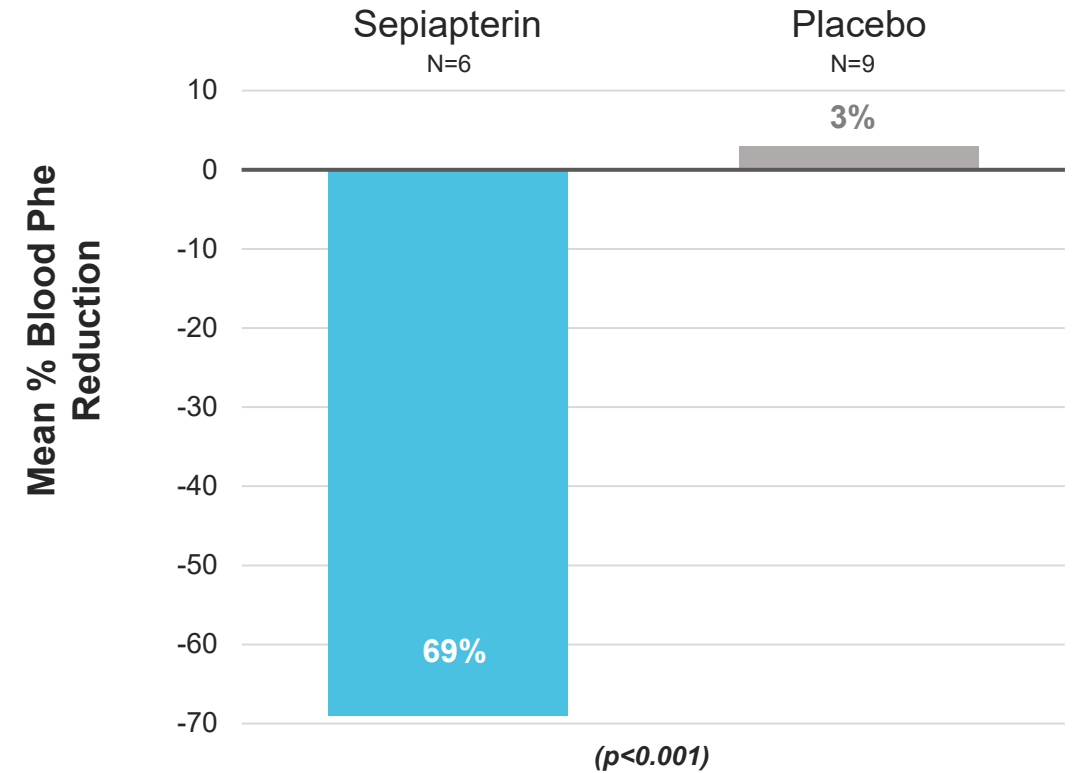
Sepiapterin Treatment Resulted in Clinically Significant Blood Phe Reduction

Mean % Blood Phe Reduction

Overall Primary Analysis Population



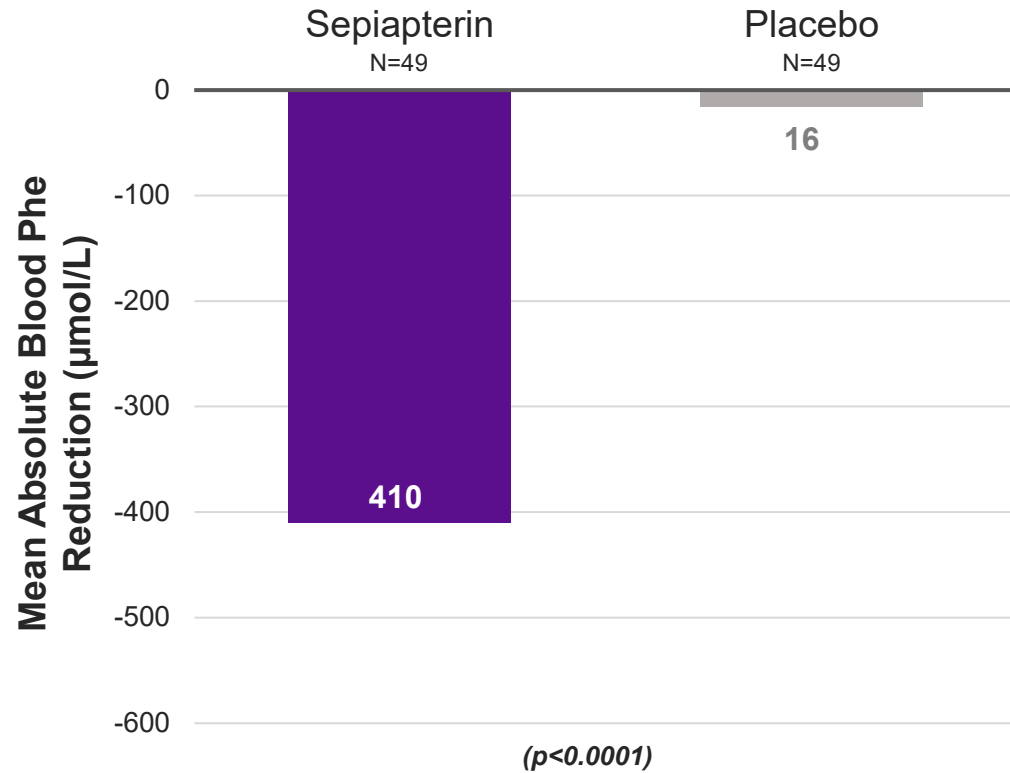
Classical PKU Patients



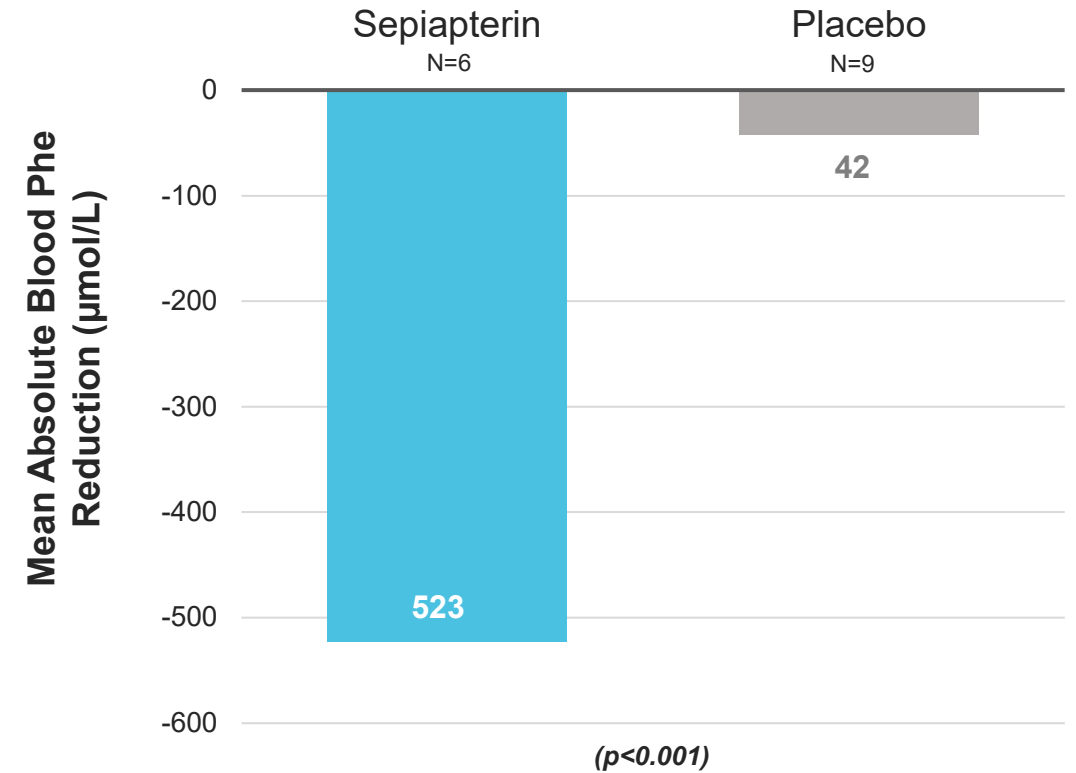
Sepiapterin Treatment Resulted in Clinically Significant Blood Phe Reduction

Mean Absolute Blood Phe Reduction ($\mu\text{mol/L}$)

Overall Primary Analysis Population

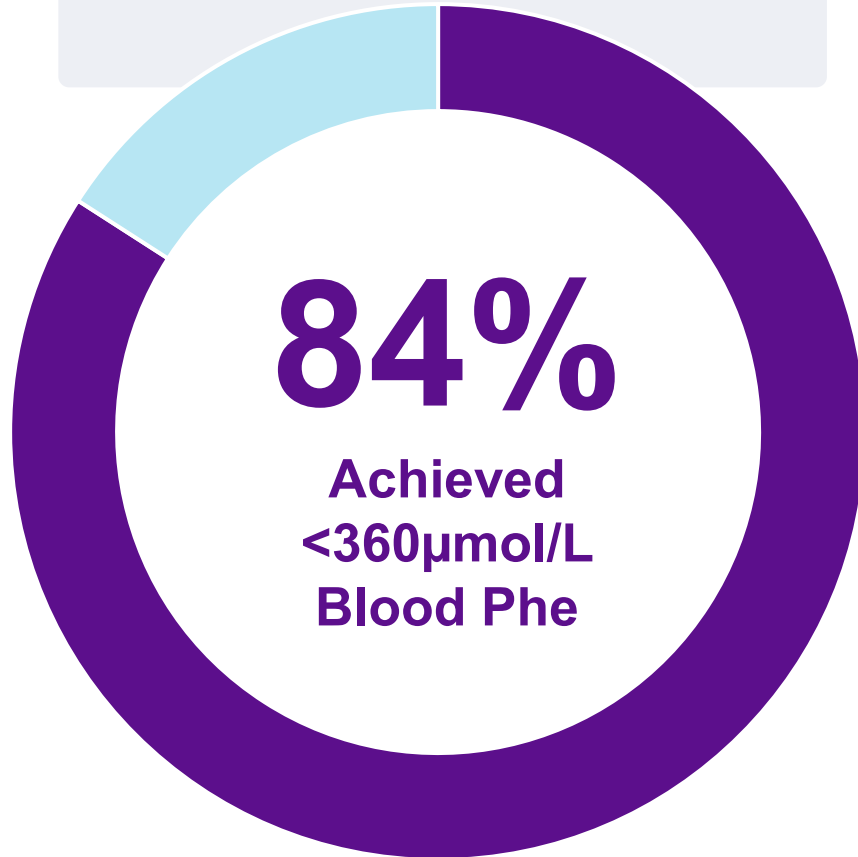


Classical PKU Patients

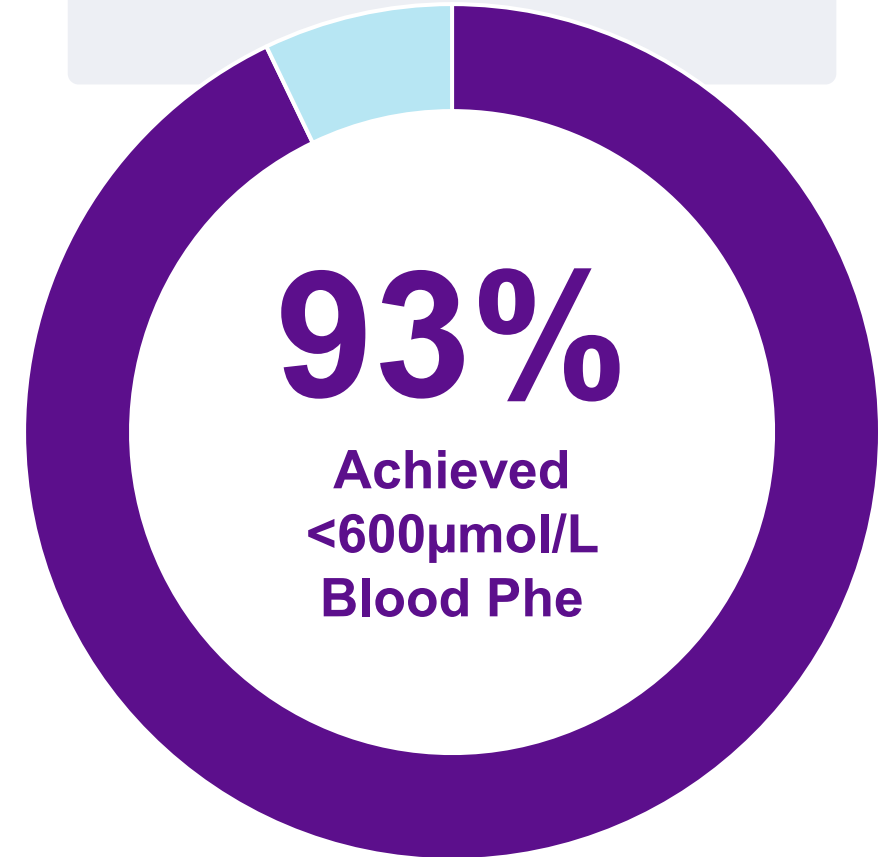


Vast Majority of Patients Achieved Guidelines Target Blood Phe Levels

US guidelines: all ages
EU guidelines: <12 years of age

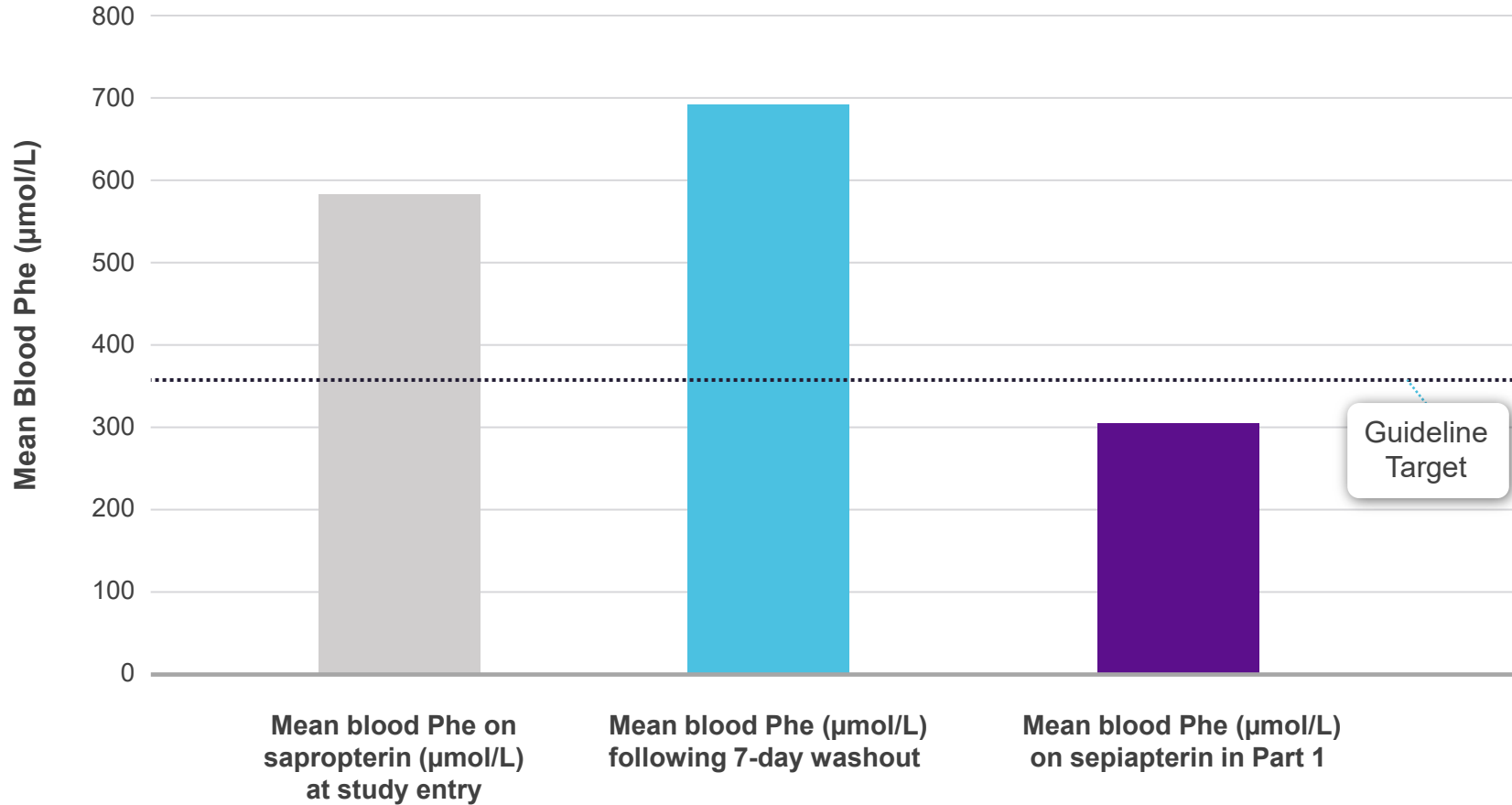


EU guidelines: ≥12 years of age



Sepiapterin Part 1 Treatment Effect in Patients Receiving Sapropterin at Study Entry

(N=27 patients)



48%
lower Phe levels following sepiapterin treatment in those patients receiving sapropterin at study entry

Sepiapterin Demonstrated to be Well Tolerated



Sepiapterin was well tolerated with no serious adverse events

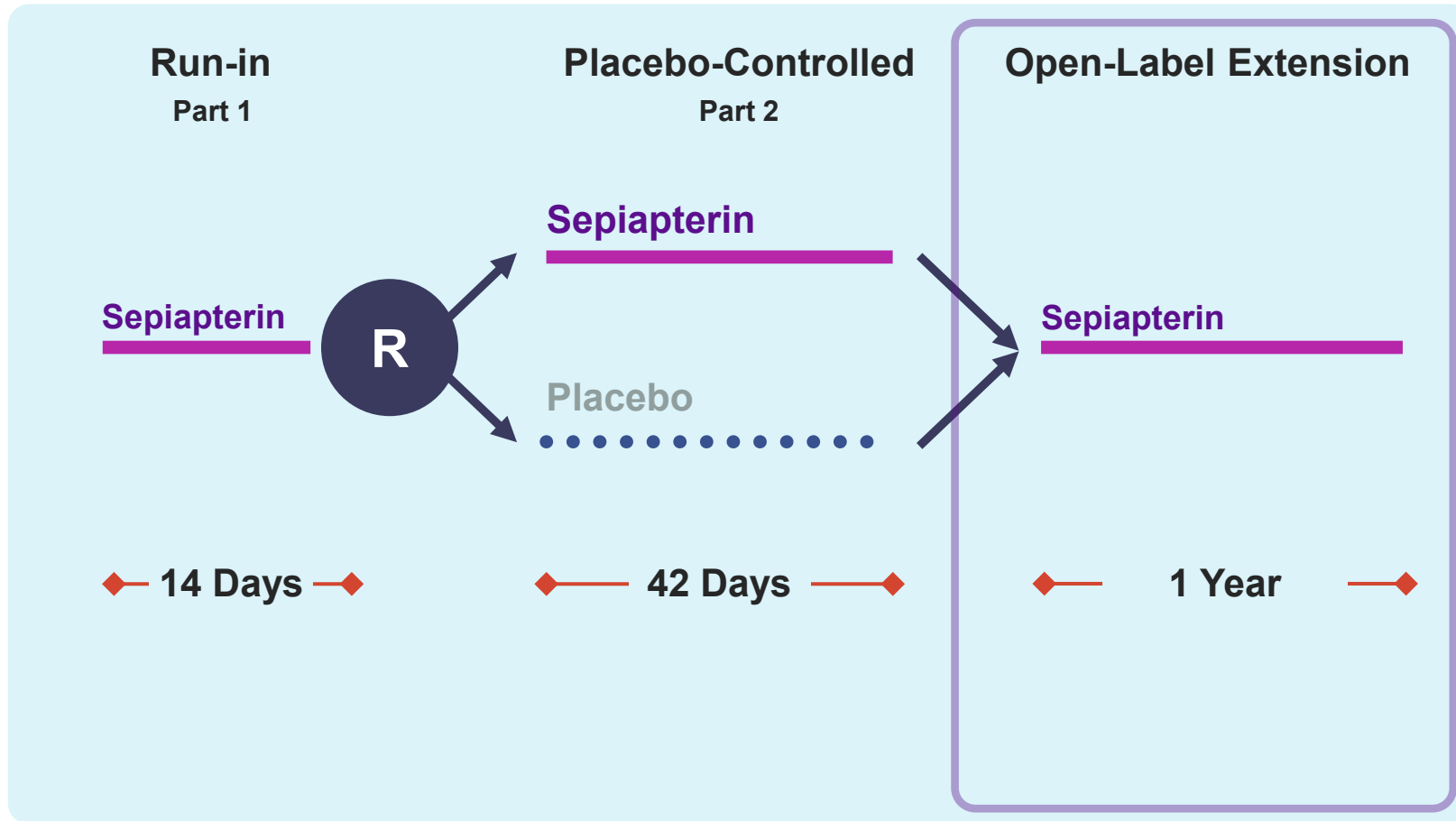


Similar related adverse event frequency between sepiapterin and placebo treatment groups



Most common adverse events were headache and diarrhea

APHENITY Open-Label Extension Assesses Long Term Safety and Phe Tolerance

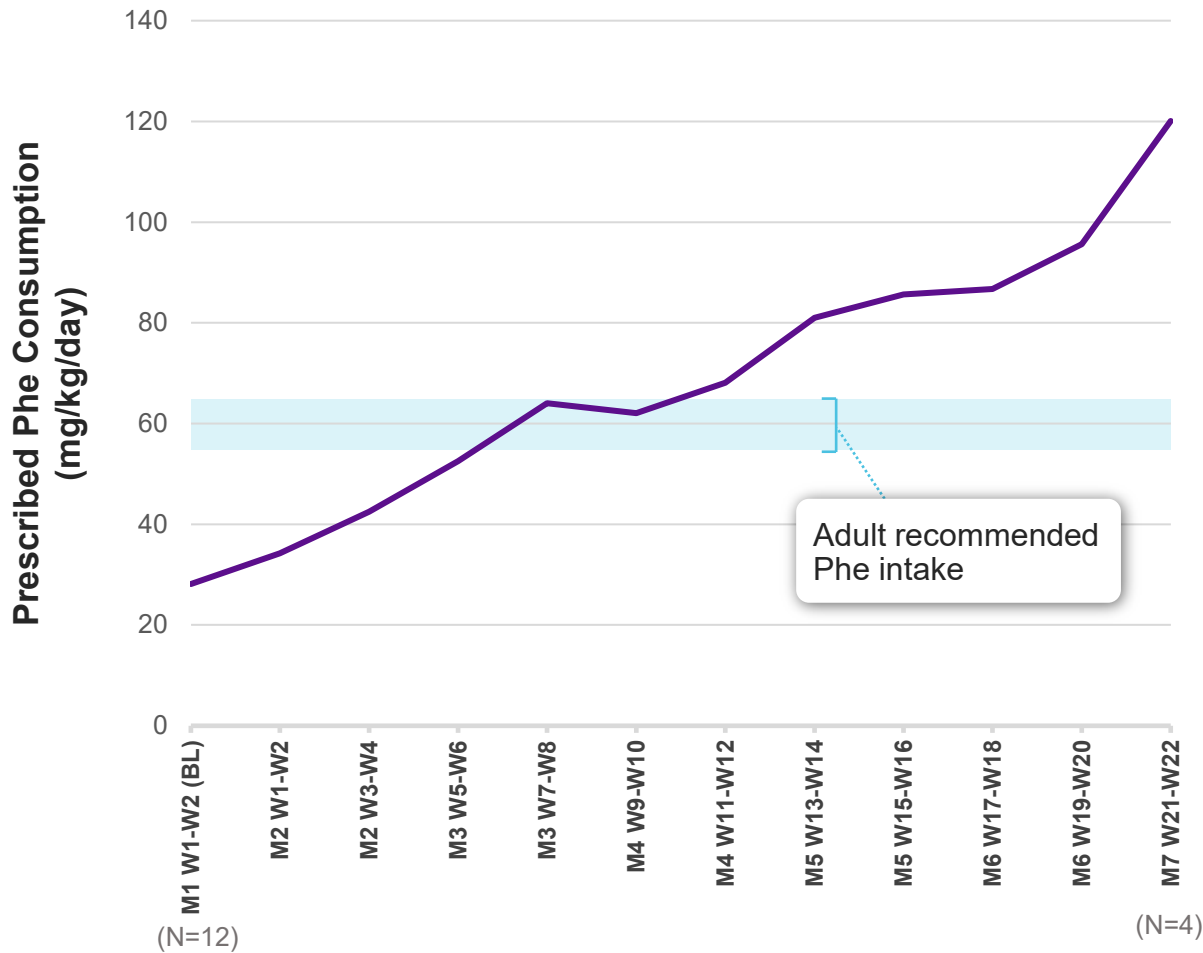


Study Objectives

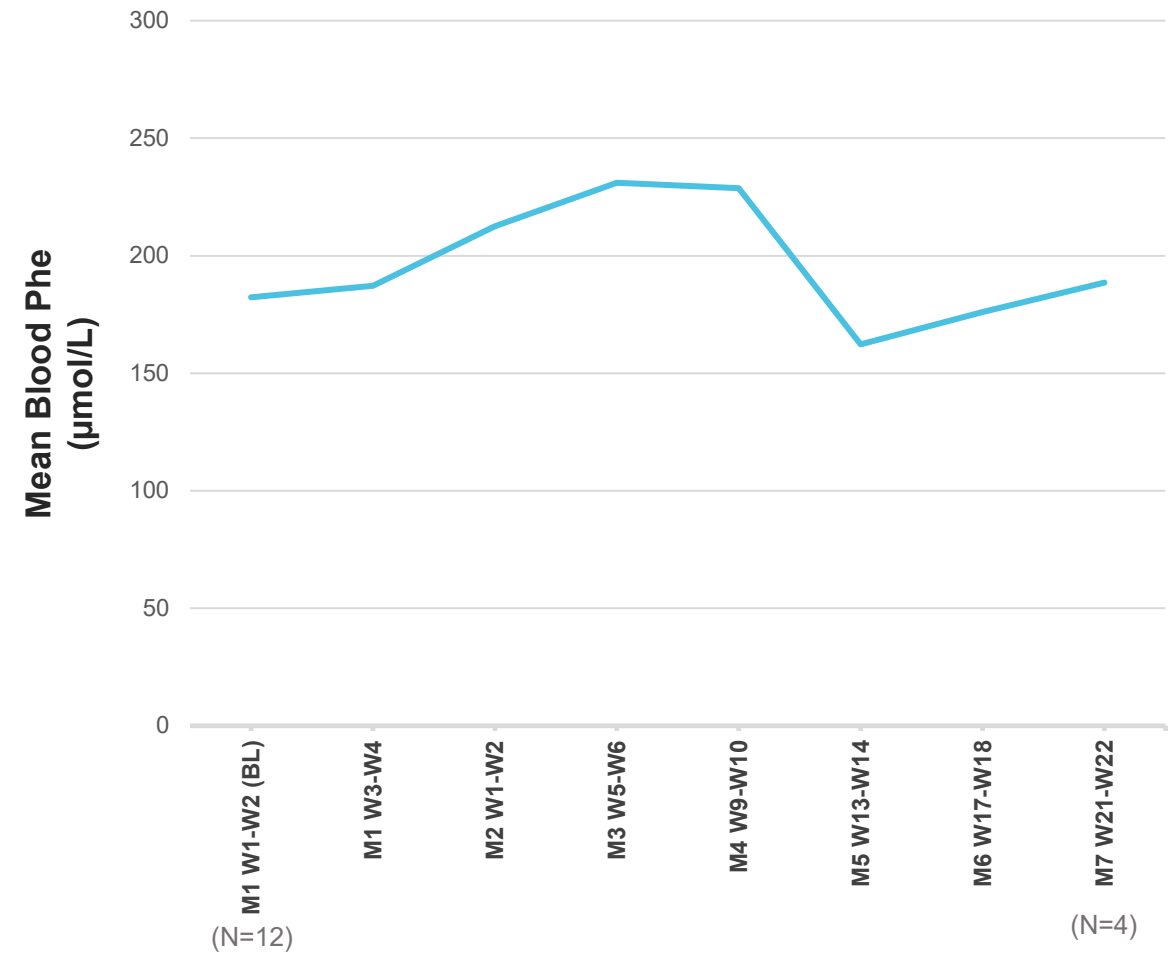
- Long-term safety
- Change in dietary Phe/protein consumption

Initial Phe Tolerance Data in Open-Label Extension

Increase in Dietary Phe Intake



Blood Phe Levels



Commercial Pillars for Success Already Established



Newborn screening with ~58,000 patients worldwide^{1,2,3}



Well-known metabolic centers of excellence worldwide



Disease pathology well understood and documented



Connected and coordinated patient advocacy community

Overview of Treatment-Emergent Adverse Events



	Sepiapterin 20 mg/kg (N=56) N % m	Sepiapterin 40 mg/kg (N=56) N % m	Sepiapterin 60 mg/kg (N=55) N % m	Sepiapterin Overall (N=56) N % m	Placebo (N = 54) N % m
All TEAEs	20 (35.7%) 29	7 (12.5%) 10	15 (27.3%) 21	33 (58.9%) 60	18 (33.3%) 33
Treatment-Related TEAEs	5 (8.9%) 7	1 (1.8%) 3	1 (1.8%) 1	6 (10.7%) 11	6 (11.1%) 9
Serious TEAEs	0	0	0	0	0
CTCAE Grade 3 or Higher TEAEs	0	0	0	0	0
TEAEs Leading to Study Drug Withdrawal	0	0	0	0	0
TEAEs Leading to Study Discontinuation	0	0	0	0	0
Death	0	0	0	0	0

APHENITY Results Support Potential for Sepiapterin to Address Majority of PKU Segments



Sepiapterin Market Opportunity



Therapy Naive Patients Including Classical PKU

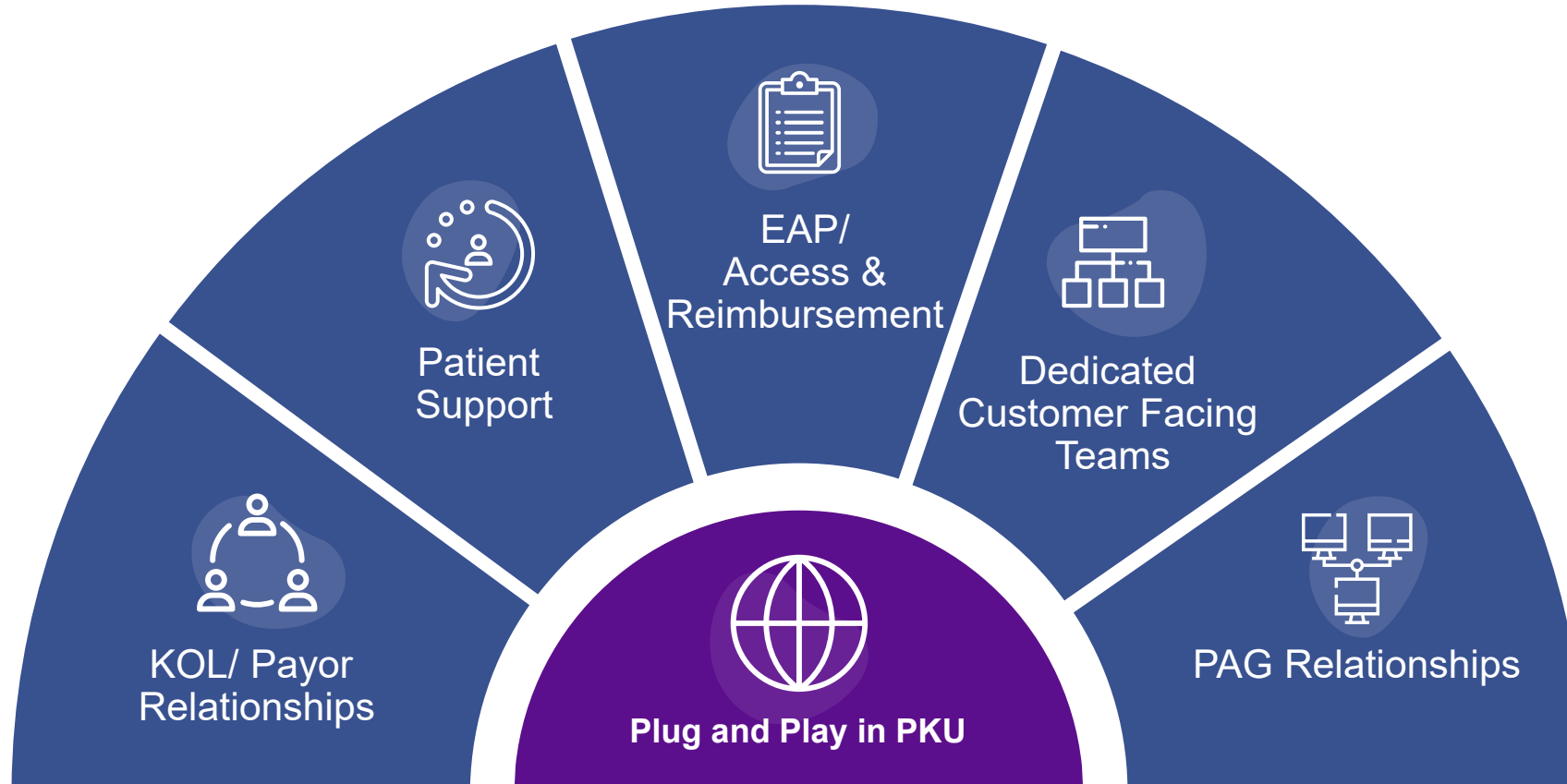


Patients Who Have Failed on Current Therapies



Patients Who Are Not Well Controlled

PTC Global Commercial Infrastructure Will Allow for Rapid Worldwide Launch



APHENITY Results Support Next Steps in Regulatory Process and Commercial Planning



Pre-Submission
Meetings



Regulatory
Submissions



Initiate Launch
Preparation