

Specialty Guideline Management

Strensiq

Products Referenced by this Document

Drugs that are listed in the following table include both brand and generic and all dosage forms and strengths unless otherwise stated. Over-the-counter (OTC) products are not included unless otherwise stated.

Brand Name	Generic Name
Strensiq	asfotase alfa

Indications

The indications below including FDA-approved indications and compendial uses are considered a covered benefit provided that all the approval criteria are met and the member has no exclusions to the prescribed therapy.

FDA-Approved Indication¹

Treatment of patients with perinatal/infantile- and juvenile-onset hypophosphatasia (HPP).

All other indications are considered experimental/investigational and not medically necessary.

Documentation

Submission of the following information is necessary to initiate the prior authorization review:

Initial requests

- Members who are 18 years of age or older at the time of the request: Chart notes or medical record documentation of presence of condition before 18 years of age
- Chart notes or medical record documentation confirming diagnosis by either of the following:

Reference number(s)
1974-A

- Genetic test results confirming a pathogenic variant in the ALPL gene
- Submission of all of the following:
 - Radiographic imaging demonstrating skeletal abnormalities (see Appendix B)
 - Serum alkaline phosphatase (ALP) level below the gender and age-specific reference range of the laboratory performing the test
 - Elevated tissue non-specific alkaline phosphatase (TNSALP) substrate level (e.g., serum pyridoxal 5-phosphate [PLP] level, urine phosphoethanolamine [PEA] level, or urinary or plasma inorganic pyrophosphate [PPi] level)
- Chart notes, medical record documentation, or laboratory reports of ophthalmology examination and renal ultrasound at baseline.

Continuation requests

- Chart notes or medical record documentation showing benefit to therapy by one of the following:
 - Radiographic Global Impression of Change (RGI-C) rating
 - Height and weight measurements as measured by z-scores
 - Modified Performance Oriented Mobility Assessment-Gait (MPOMA-G) score
 - Distance walked in the 6 Minute Walk Test (6MWT)
 - Timed Up & Go (TUG) Test
 - Chair Rise Test
 - Lower Extremity Function Scale (LEFS)
- Chart notes, medical record documentation, or laboratory reports of ophthalmology examination and renal function assessment.

Prescriber Specialties

This medication must be prescribed by or in consultation with an endocrinologist, geneticist, or a physician specializing in the treatment of metabolic bone disorders.

Coverage Criteria

Perinatal/Infantile- and Juvenile-Onset Hypophosphatasia (HPP)¹⁻⁴

Authorization of 12 months may be granted for treatment of HPP when all of the following criteria are met:

- Member has clinical signs and/or symptoms of hypophosphatasia (see Appendix A)
- The onset of the disease was perinatal/infantile or juvenile (prior to 18 years of age)
- Diagnosis is confirmed by either of the following criteria:

Reference number(s)
1974-A

- Presence of a known pathogenic variant in the ALPL gene as detected by molecular genetic testing
- Member meets all of the following criteria:
 - Radiographic imaging demonstrating skeletal abnormalities (see Appendix B)
 - Serum alkaline phosphatase (ALP) level below the gender- and age-specific reference range of the laboratory performing the test
 - Elevated tissue-nonspecific alkaline phosphatase (TNSALP) substrate level (e.g., serum PLP level, urine PEA level, or urinary or plasma PPI level) as defined by the laboratory performing the test
- Member has had an ophthalmology examination and renal ultrasound at baseline
- Member's weekly dose will not exceed either of the following:
 - 9 mg/kg weekly in a member with perinatal/infantile-onset HPP
 - 6 mg/kg weekly in a member with juvenile-onset HPP

Continuation of Therapy

Authorization of 12 months may be granted for continued treatment in members requesting reauthorization for an indication listed in the coverage criteria who are currently receiving the requested medication through a paid pharmacy or medical benefit when all of the following criteria are met:

- Member is experiencing benefit from therapy as demonstrated by improvement in one of the following from baseline:
 - Skeletal manifestations as assessed by the Radiographic Global Impression of Change (RGI-C) scale
 - Height and weight as measured by z-scores, and member is less than 18 years of age
 - Step length by at least one point in either foot based on the Modified Performance Oriented Mobility Assessment-Gait (MPOMA-G) scale
 - Six Minute Walk Test (6MWT)
 - Timed Up & Go (TUG) Test
 - Chair Rise Test
 - Lower Extremity Function Scale (LEFS)
- Member is monitored for signs and symptoms of ophthalmic and renal ectopic calcifications and for changes in vision or renal function
- Member's weekly dose will not exceed either of the following:
 - 9 mg/kg weekly in a member with perinatal/infantile-onset HPP
 - 6 mg/kg weekly in a member with juvenile-onset HPP

Appendix

Appendix A. Examples of Signs and Symptoms of HPP²⁻⁴

Perinatal/Infantile-Onset HPP

- Generalized hypomineralization with rachitic features, chest deformities and rib fractures
- Skeletal abnormalities (e.g., short limbs, abnormally shaped chest, soft skull bone)
- Respiratory problems (e.g., pneumonia)
- Hypercalcemia
- Failure to thrive
- Severe muscular hypotonia and weakness
- Nephrocalcinosis secondary to hypercalciuria
- Swallowing problems
- Seizures

Juvenile-Onset HPP

- Premature loss of deciduous teeth
- Failure to thrive with anorexia, nausea, and gastrointestinal problems
- Short stature with bowed legs or knock knees
- Skeletal deformities (e.g., enlarged wrist and ankle joints, abnormal skull shape)
- Bone and joint pain
- Rickets
- Fractures
- Delayed walking
- Waddling gait

Appendix B. Examples of Radiographic Findings that Support HPP Diagnosis²⁻⁴

- Infantile rickets
- Alveolar bone loss
- Focal bony defects of the metaphyses
- Metatarsal stress fractures or metaphyseal fractures
- Osteomalacia with lateral pseudofractures
- Osteopenia, osteoporosis, or low bone mineral content for age (as detected by dual-energy x-ray absorptiometry [DEXA])
- Prenatal long bone bowing with osteochondral spurs

Reference number(s)
1974-A

References

1. Strensiq [package insert]. Boston, MA: Alexion Pharmaceuticals, Inc.; July 2024.
2. Bianchi ML. Hypophosphatasia: an overview of the disease and its treatment. *Osteoporos Int.* 2015; 26(12):2743-57.
3. Dahir KM, Nunes ME. Hypophosphatasia. *GeneReviews* [Internet]. Available at <http://www.ncbi.nlm.nih.gov/books/NBK1150>. Updated March 27, 2025. Accessed August 13, 2025.
4. Whyte, MP. Hypophosphatasia: An overview for 2017. *Bone.* 2017;102:15-25.