

# Drug and Biologic Coverage Policy



Effective Date..... 9/15/2023

Next Review Date..... 9/15/2024

Coverage Policy Number ..... IP0444

## Idursulfase

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### Related Coverage Resources

#### INSTRUCTIONS FOR USE

The following Coverage Policy applies to health benefit plans administered by Cigna Companies. Certain Cigna Companies and/or lines of business only provide utilization review services to clients and do not make coverage determinations. References to standard benefit plan language and coverage determinations do not apply to those clients. Coverage Policies are intended to provide guidance in interpreting certain standard benefit plans administered by Cigna Companies. Please note, the terms of a customer's particular benefit plan document [Group Service Agreement, Evidence of Coverage, Certificate of Coverage, Summary Plan Description (SPD) or similar plan document] may differ significantly from the standard benefit plans upon which these Coverage Policies are based. For example, a customer's benefit plan document may contain a specific exclusion related to a topic addressed in a Coverage Policy. In the event of a conflict, a customer's benefit plan document always supersedes the information in the Coverage Policies. In the absence of a controlling federal or state coverage mandate, benefits are ultimately determined by the terms of the applicable benefit plan document. Coverage determinations in each specific instance require consideration of 1) the terms of the applicable benefit plan document in effect on the date of service; 2) any applicable laws/regulations; 3) any relevant collateral source materials including Coverage Policies and; 4) the specific facts of the particular situation. Coverage Policies relate exclusively to the administration of health benefit plans. Coverage Policies are not recommendations for treatment and should never be used as treatment guidelines. In certain markets, delegated vendor guidelines may be used to support medical necessity and other coverage determinations.

### Overview

This policy supports medical necessity review for idursulfase (**Elaprase®**).

Receipt of sample product does not satisfy any criteria requirements for coverage.

### Medical Necessity Criteria

**Idursulfase (Elaprase) is considered medically necessary when the following are met:**

1. **Mucopolysaccharidosis Type II (Hunter Syndrome).** Individual meets **BOTH** of the following criteria (A and B):
  - A. The diagnosis is established by **ONE** of the following (i or ii):
    - i. Individual has a laboratory test demonstrating deficient iduronate-2-sulfatase activity in leukocytes, fibroblasts, serum, or plasma

- ii. Individual has a molecular genetic test demonstrating a pathogenic or likely pathogenic iduronate-2-sulfatase (*IDS*) gene variant
- B. The medication is prescribed by, or in consultation with, a geneticist, endocrinologist, a metabolic disorder sub-specialist, or a physician who specializes in the treatment of lysosomal storage disorders.

When coverage is available and medically necessary, the dosage, frequency, duration of therapy, and site of care should be reasonable, clinically appropriate, and supported by evidence-based literature and adjusted based upon severity, alternative available treatments, and previous response to therapy.

## Reauthorization Criteria

Idursulfase (Elaprase) is considered medically necessary for continued use when initial criteria are met AND there is documentation of beneficial response.

## Authorization Duration

Initial and reauthorization approval duration: 12 months

## Conditions Not Covered

Any other use is considered experimental, investigational or unproven.

## Coding Information

Note:

- 1) This list of codes may not be all-inclusive.
- 2) Deleted codes and codes which are not effective at the time the service is rendered may not be eligible for reimbursement.

**Considered Medically Necessary when criteria in the applicable policy statements listed above are met:**

HCPSC Codes	Description
J1743	Injection, idursulfase, 1 mg

## Background

### OVERVIEW

Elaprase, human iduronate-2-sulfatase (idursulfase), is indicated for patients with **Hunter syndrome (Mucopolysaccharidosis type II [MPS II])**.<sup>1</sup>

### Disease Overview

MPS II or Hunter syndrome, is a rare, X-linked lysosomal storage disorder characterized by a deficiency of iduronate-2-sulfatase leading to the accumulation of glycosaminoglycans dermatan sulfate and heparin sulfate.<sup>2,3</sup> Males are almost exclusively affected, although there have been a few case reports of females with Hunter syndrome.<sup>3,4</sup> The onset, progression, and severity of MPS II is variable.<sup>2-4</sup> Most of the patients with MPS II have a severe form with neurologic involvement leading to cognitive impairment and neurologic regression.<sup>3,4</sup> Other manifestations of Hunter syndrome include coarse facial features, hepatosplenomegaly, cardiac and respiratory disease, short stature, and stiff joints and contractures.<sup>2,3</sup> The definitive diagnosis of MPS II is established by demonstrating deficient iduronate-2-sulfatase activity in leukocytes, fibroblasts, serum, or plasma; or mutations in the iduronate-2-sulfatase gene.<sup>2,5</sup> Definitive treatment of MPS II consists of enzyme replacement therapy with Elaprase.<sup>2-4</sup> Hematopoietic stem cell transplantation has not demonstrated clear neurological benefit to date and is not recommended for MPS II due to the high rate of morbidity and mortality associated with this therapy.<sup>2,4</sup>

### Dosing and Availability

The recommended dosage regimen of Elaprase is 0.5 mg per kg of body weight administered once weekly as an intravenous infusion. Elaprase is supplied as a sterile injection in a 5 mL Type I glass vial.

## References

1. Elaprase® intravenous infusion [prescribing information]. Lexington, MA: Shire Human Genetic Therapies; October 2021.
2. Scarpa M, Almassy Z, Beck M, et al. Mucopolysaccharidosis type II: European recommendations for the diagnosis and multidisciplinary management of a rare disease. *Orphanet J Rare Dis.* 2011;6:72.
3. Muenzer J, Beck M, Eng CM, et al. Multidisciplinary management of Hunter syndrome. *Pediatrics.* 2009;124:e1228-e1239.
4. Giugliani R, Federhen A, Munoz Rojas MV, et al. Mucopolysaccharidosis I, II, and VI: Brief review and guidelines for treatment. *Genet Mol Biol.* 2010;33:589-604.
5. D'Avanzo F, Rigon L, Zanetti A, Tomanin R. Mucopolysaccharidosis type II: One hundred years of research, diagnosis, and treatment. *Int J Mol Sci.* 2020;21:E1258.

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