

# Product Rationale: **PROTEASE-CBD**



Consider the following review of clinical research on several important active ingredients known for their ability to create homeostasis in the body. These ingredients work synergistically to help restore, soothe and support the endogenous Endocannabinoid System.

Transformation's Professional Protocol™ Protease-CBD is an exclusive formulation that integrates (1) the regulatory system of the Endocannabinoid System; (2) properties of proteolytic enzymes in enhancing blood rheology and optimizing receptor-ligand interactions; and (3) nutritive and health benefits of moringa.

## PRODUCT OVERVIEW

The three main components eliciting the qualities above are cannabidiol (CBD) isolate, proteolytic enzymes, and moringa. These ingredients work synergistically to help restore and/or maintain homeostasis.

## FORMULA RATIONALE

**CBD isolate:** Its role in this product is to support the endogenous Endocannabinoid System (ECS). The ECS is a key regulatory system that modulates several bio-physiological functions in the body. More specifically, this system helps control appetite, manage pain, control inflammation, modulate pleasure, support the immune function, control excess cortisol production, manage depression (and other mood disorders), enhance memory and learning ability, support the reproductive function, and other functions. The ECS is involved in all aspects of the body's function. Its action is mediated by two main receptors referred to as CB1 and CB2. These receptors are parts of G-protein's coupled receptors family and are thus able to activate multiple signaling biochemical pathways leading to various homeostatic physiologic responses. The receptor CB1 mediates ECS functions in virtually all parts of the body and is primarily found on the nervous system cells, while the receptor CB2 is primarily found on the immune cells where it mediates the immune response. This ubiquitous distribution of the receptors allows the ECS to impart its benefits throughout the body.

**Tzyme™ Protease Blend:** This unique formulation of proteolytic enzymes is included to support improved blood rheology, thus enhancing the molecular transport of the CBD isolate and the other ingredients in the

product. An imbalanced body is often overwhelmed by oxidized proteins. This is also true of receptors. The protease blend in this formula helps further remove the receptors which have been damaged by free radicals, thus optimizing the body's response to the CBD. In addition to this action on blood circulation and enhancement of the CBD-receptor interaction, the protease enzymes have been shown to modulate inflammation.

**Moringa:** The third ingredient in this "homeostatic-modulating-trio" is *Moringa oleifera*. The moringa tree is referred to as the "miracle tree" because of its multipurpose use but more importantly its high nutritive and health properties. The leaves of the tree used in this formulation are rich in amino acids, free radical controlling phytonutrients, vitamin C, vitamin A, and B complex as well as minerals such as calcium, potassium, iron, zinc, phosphorus, and magnesium. In addition to its nutritive value, the leaves have also been shown to help prevent and fight many health challenges and to support the body's anatomical and physiological balance. Moringa's homeostatic modulating properties include supporting the cardiovascular and respiratory systems, controlling mood disorders, modulating inflammation, maintaining blood sugars, improving vision, promoting healthy kidney function, and imparting many other benefits. Moringa is included in this formulation to work in tandem with the other ingredients in supporting their overall homeostatic benefits.

## OTHER INGREDIENTS

### Hypromellose

This product is encapsulated in a vegetarian capsule. Protease-CBD is dairy, gluten, and soy free. No fillers are used in this product.

## COMPONENT BENEFITS

This formulation includes moringa, a proteolytic enzyme blend, and the isolate form of CBD to support overall systemic health.

Each one-capsule serving of Protease-CBD is formulated to include the following.

Moringa leaf powder ( <i>Moringa oleifera</i> )	150 mg
Tzyme™ Protease Blend (peptidases, bromelain)	100 mg
CBD isolate	50 mg

Other Ingredients:

Hypromellose

## SUMMARY

Transformation's Professional Protocol™ Protease-CBD is an exclusive formulation of moringa and cannabidiol isolate, the purest form of CBD, optimized with an enzyme blend for improved delivery, absorption, and reception to support systemic health.

## CLINICAL APPLICATIONS

- Anxiety
- Cognition
- Neurological disorders
- Movement disorders
- Epilepsy
- Pain

## RECOMMENDED USAGE

Begin with one (1) capsule once daily preferably with food and 8 oz of water. In a week's time an individual may find additional capsules may be taken for desired results or as directed by a health care practitioner. If there is difficulty swallowing capsules, remove contents from capsule, mix with a small amount of tepid water, and ingest immediately.

## CONTRAINDICATIONS

In general there are no known contraindications. However, it is recommended to consult a practitioner before taking if pregnant, breastfeeding, or if a child is under the age of 12. Each case should be assessed on an individual basis where a practitioner can use their professional judgement to use this formulation.

## SAFETY / QUALITY ASSURANCE

All Transformation™ formulas are carefully prepared to assure maximum quality and nutritional effectiveness.

## MICROBIOLOGICAL EVALUATION

This product was tested and found to be NSF/ANSI compliant and absent of any traces of *E.coli*, *salmonella*, and *S.aureus*.

## PRODUCT SPECIFICATIONS

Protease-CBD is available in bottles of 60 capsules.

Does not contain any dairy, egg, sugar, corn, yeast, soy, artificial colors, flavors, or preservatives.

Store in a cool, dry place. Keep out of reach of children.

## REFERENCES

Abdull Razis AF, Ibrahim MD, Kntayya SB. "Health benefits of *Moringa oleifera*." Asian Pac J Cancer Prev. 2014;15(20):8571-6.

Arai KI, Lee F, Miyajima A, Miyatake S, Arai N, Yokota T. "Cytokines: coordinators of immune and inflammatory responses." Annu Rev Biochem. 1990;59:783-836.

Buford TW, Cooke MB, Redd LL, Hudson GM, Shelmadine BD, Willoughby DS. "Protease supplementation improves muscle function after eccentric exercise." Med Sci Sports Exerc. 2009 Oct;41(10):1908-14.

Desser L, Rehberger A, Kokron E, Paukovits W. "Cytokine synthesis in human peripheral blood mononuclear cells after oral administration of polyanzyme preparations." Oncology. 1993 Nov-Dec;50(6):403-7

Desser L, Rehberger A, Paukovits W. "Proteolytic enzymes and amylase induce cytokine production in human peripheral blood mononuclear cells in vitro." Cancer Biother. 1994 Fall;9(3):253-63.

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Transformation Enzyme Corporation  
2900 Wilcrest, Suite 220  
Houston, TX 77042  
1-800-777-1474  
TransformationEnzymes.com  
moreinfo@tecenzymes.com

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