



## Activated Barley Sprout Powder

### ABOUT TRANSACT™

- TransAct™ is a proprietary formulation of activated barley sprouts.
- TransAct™ is an all-barley nutritional in powdered form.
- TransAct™ has a mild taste.
- TransAct™ was designed as a healthy product for individuals concerned about healthy glucose management.
- TransAct™ is a great candidate for any diet or weight loss program.

### BARLEY BENEFITS

- Barley is known to be an excellent form of fiber and selenium, and a good source of phosphorus, copper and niacin.
- Barley has long been recognized as having beneficial effects on blood glucose.
- Recent studies have indicated that sprouted barley can increase anti-diabetic activity.

### TRANSACT™ STUDIES

- TransAct™ lowered the levels of glucosylated hemoglobin, LDL/HDL ratio, fasting and post-prandial glucose in Type 2 diabetic volunteers in a pilot study.
- Exhibited significant hypoglycemic effect upon glycosuria-induced animals during 90 days treatment.
- Exhibited significant hypoglycemic effect upon db/db animals during 30 days treatment.
- Increased glucose transport independently of insulin into C2C12 muscle cells *in vitro*.
- Stimulated dose dependent glucose transport into L6 muscle cells *in vitro*.
- Stimulated glucose uptake in animal adiposities *in vitro* and potentiated the action of insulin.
- Stimulated GLUT 4 activation in C2C12 cells and in a primary culture of human muscle cells *in vitro*.

### METABOLIC SYNDROME

- High fruit, vegetable and grain intake reduces the risk of developing diabetes mellitus.
- One symptom of metabolic syndrome is insulin resistance or glucose intolerance.
- Metabolic syndrome is the leading cause of Type 2 diabetes and heart disease in the United States.
- Evidence suggests that consumption of a diet low in energy, high in plant food and rich in unrefined products can reduce the occurrence of these diseases.
- TransAct™ is a healthy addition to any diet lacking in natural, unrefined foods.

### STRUCTURE FUNCTION CLAIMS

- TransAct™ helps maintain healthy metabolism of glucose.
- TransAct™ helps reduce insulin resistance.
- TransAct™ helps maintain healthy blood glucose levels.
- TransAct™ helps maintain healthy serum lipid levels.
- TransAct™ helps maintain healthy triglyceride levels.
- TransAct™ helps slow the rate of glucose-related aging.

### PRODUCT POSSIBILITIES

- Nutritional and meal replacement bars
- Ready-to-drink and ready-to-mix beverages
- Healthy weight management products
- Glucose management
- Specialized and heart-healthy diets
- Functional foods such as yogurts and soups

### CONTACT

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