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Certificate of Analysis

Catalog Number	BP13635
Product Name	RGX-202

Physical and Chemical Properties

Synonyms	3-Guanidinopropionic Acid, β-GPA
CAS No.	353-09-3
Chemical Formula	C4H9N3O2
Molecular Weight	131.135
Solubility	DMSO: 10 mM
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	3-Guanidinopropionic acid is a creatine analog that alters skeletal muscle energy expenditure. It reduces cellular ATP, creatine, and phosphocreatine levels and stimulates AMP-activated protein kinase (AMPK), activating PPARγ coactivator 1α (PGC-1α).
In vitro	3-Guanidinopropionic acid evokes a shift from glycolytic to oxidative metabolism, increased cellular glucose uptake, and increased fatigue tolerance

In vivo	3-Guanidinopropionic Acid(β-GPA) downregulated the expression of the β-oxidation genes.?Administration of β-GPA in mice for 3 weeks improved the animals' physical strength and endurance health, ie, increased their physical strength and endurance and alleviated anxiety.?β-GPA might be considered an adaptogene affecting both the muscle and brain metabolism in mammals.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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