



IGF1 & IGF BP3 - Test Code 1107



Turnaround Time: 6-7 business days



Specimen Type: 1x SST
Blood (Fasting)

Description

Insulin-like Growth Factor 1 (IGF-1) is a liver-derived protein that plays a crucial role in maintaining the body's metabolic functions. It is regulated primarily by the pituitary growth hormone (GH), and circulates in the bloodstream, acting as an endocrine factor (Kasprzak, 2021).

IGF-1 is essential for regulating insulin sensitivity, supporting glucose uptake, reducing plasma triglycerides, and maintaining healthy cholesterol levels (Kasprzak, 2021). It helps to manage overall metabolic balance by controlling glucose and lipid metabolism (Kasprzak, 2021). Additionally, IGF-1 directly influences its own production through hepatic glucose metabolism (Kasprzak, 2021).

In both healthy and diseased states, IGF-1 is governed by complex genetic and epigenetic mechanisms, which affect carbohydrate and lipid metabolism (Kasprzak, 2021). IGF-1 and its interaction with IGF Binding Protein 1 (IGFBP-1) play a key role in glucose regulation, potentially protecting against glucose intolerance. Impaired IGF-1 production can lead to worsened insulin resistance (Kasprzak, 2021). Furthermore, IGF-1 helps balance the relationship between GH and insulin, both of which are vital for proper glucose metabolism (Kasprzak, 2021). Low levels of IGF-1 may indicate an underlying issue with metabolic control and hormonal balance (Kasprzak, 2021).

Whats included?

- Insulin-like Growth Factor 1 (IGF1)
- Insulin-like Growth Factor Binding Protein 3 (IGF BP3)

Conditions and Symptoms

- Growth hormone deficiency
- Central obesity
- Diminished memory
- Impaired sleep
- Low libido
- Osteoporosis
- Cardiovascular disease

Complementary Testing

- Thyroid Profile - Extensive (Test code 1114)
- Female Hormone Profile (Test code 1104)
- Male Hormone Profile (Test code 1110)

Accreditations Include:

- NATA ISO 15189 – Requirements for Quality and Competence in Medical Laboratories*
- CLIA – Clinical Laboratories Improvement Amendments*



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