

# IGFBP 3 Insulin like Growth Factor

## Binding Protein 3

### General:

Insulin-like growth factor binding proteins are transport proteins, protecting the organism against the hypoglycemic effect of somatomedin. They modulate the biological effects of somatomedin. Osteoblasts are the main producers of IGFBP-3. Vice versa, human growth hormone (GH) is considered the most important modulator for IGFBP-3. Due to higher stability (less circadian rhythmicity) than HGH, IGFBP-3 reflects much better the growth hormone secretion over several days. A single determination is sufficient. Beside IGF-1, IGFBP-3 shows a distinctive age-dependence with low values in infants and children and a peak during puberty. IGFBP-3 is especially suitable for differentiating hyposomic children without growth hormone deficiency from children with "classical" growth hormone deficiency. IGFBP-3 shows high diagnostic accuracy. IGF-1 is reliable in elder children only (> 8 years old), as the low normal range of IGF-1 in infants is less accurate than IGFBP-3.

Indication: Diagnosis of the "classical" hyposomia, acromegaly, monitoring the treatment of acromegaly. Aids in workup of suspected anterior hypopituitarism.

Material: 1 ml serum , **Frozen**

TAT: 7-10 days\*

Method: LIA

Units: µg/ml

Ref.- range: see report

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit <http://www.fml-dubai.com/parameter-listings/>