

# PTH Summary

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PTH (Intact) = active

1 84

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Heterogeneity

Fragments / Truncated

34 84

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37 84

1<sup>st</sup> Generation PTH assays

-Competitive

2<sup>nd</sup> Generation PTH assays

-Sandwich (detection against 84' end)

3<sup>rd</sup> Generation PTH assays

-Sandwich (detection against 84' end and 1-6' AA end)

Dr. Jody Rusch's simplistic explanation of PTH and its measurement

n-truncated are deficient in the first few aa's (7-84) – hence biologically inactive.

1-11 aa sequence is necessary for function.

Different assays:

- Intact PTH measurements: 7-84 and 1-84
- Bioactive PTH: 1-84
- CAP assay: cAMP inducible PTH. This assay determines the biologically active PTH by its ability to induce cAMP.
- PTHrP assays and PTH assays are exclusive to each other by design.