

On the stability and dimerisation of the human guanylate-binding protein 1 (hGBP-1)

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Abstract

The human guanylate-binding protein 1

- is a **GTPase** induced by the immunomodulatory protein interferon- γ
- hydrolyses GTP to both GDP and GMP in two steps
- binds GMP, GDP and GTP with similar micro-molar affinity
- shows **nucleotide-dependent oligomerisation** and a fast cooperative GTPase activity

How do the ligands GTP, GDP, or the absence of a nucleotide influence the **dimerisation behavior** of the protein?

