

The sentence

The inhibitory action of p27, a cyclin-dependent kinase inhibitor (CDKI), arises from its binding with the cyclin E/Cdk2 complex that results in G(1)-S arrest.

Entities and types

- p27—individual protein
- action of p27—function property
- cyclin-dependent kinase inhibitor—protein family or group
- CDKI—protein family or group
- cyclin E—individual protein
- Cdk2—individual protein
- cyclin E/Cdk2 complex—protein complex
- its—individual protein

Ontology knowledge about entity types

- individual protein $\prec$ protein $\prec$ amino acid $\prec$ organic $\prec$ compound $\prec$ substance $\prec$ physical entity $\prec$ entity
- protein family or group $\prec$ protein $\prec$ amino acid $\prec$ organic $\prec$ compound $\prec$ substance $\prec$ physical entity $\prec$ entity
- protein complex $\prec$ individual protein $\prec$ protein $\prec$ amino acid $\prec$ organic $\prec$ compound $\prec$ substance $\prec$ physical entity $\prec$ entity
- function property $\prec$ property $\prec$ entity

Relationships

- EQUAL(cyclin-dependent kinase inhibitor, CDKI)
- MEMBER(cyclin-dependent kinase inhibitor, p27)
- ANAPHORA(its, p27)
- CONTAIN(cyclin E/Cdk2 complex, cyclin E)
- CONTAIN(cyclin E/Cdk2 complex, Cdk2)
- CAUSE(BIND(its, cyclin E/Cdk2 complex), action of p27)

Ontology knowledge about relationships

- EQUAL $\prec$ equality $\prec$ is_a $\prec$ relationship
- MEMBER $\prec$ collection:member $\prec$ part_of $\prec$ relationship
- CONTAIN $\prec$ object:component $\prec$ part_of $\prec$ relationship
- CAUSE $\prec$ causal $\prec$ relationship
- BIND $\prec$ assembly $\prec$ physical $\prec$ change $\prec$ causal $\prec$ relationship

Text binding, i.e. text used to infer the relationships

- CONTAIN: complex
- CAUSE: arises from
- BIND: binding with

Syntactic annotation

