

Recombinant Human Retinoblastoma-Associated Protein Fragment, 137a.a. with His-tag

#R00534

Size: 10 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Rb encoded by the RB1 gene in humans, is expressed by retina and belongs to the etinoblastoma-associated protein family. The hole protein consists of 928 a.a. and the rHuRb fragment occupies sequence of 792-929 a.a.. Rb is a key regulator of entry into cell division that acts as a tumor suppressor. It has many functions, for example, promotes G0-G1 transition when phosphorylated by CDK3/cyclin-C, and acts as a transcription repressor of E2F1 target genes and so on. The rHuRb is the region that rich of modified residue like phosphothreonine and N6-acetyllysine.

AA Sequence

MASFPSSPLRIPGGNIYISPLKSPYKISEGLPTPTKMT
PRSRILVSIGESFGTSEKFQKINQMVCNSDRVLKRSA
EGSNPPKPLKKLRFDIEGSDEADGSKHLPGESKFQQ
KLAEMTSTRTRMQKQKMNDSDTSNKEEKHHHHHH

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	p105-Rb, pRb, pp110
Species	Human
Source	Escherichia coli.
Tags	His
Molecular Weight	Approximately 16.5 kDa, a single non-glycosylated polypeptide chain containing 146 amino acids.
Purity	≥95 % by SDS-PAGE analysis.
Physical Appearance	Sterile Filtered White Lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Endotoxin	Less than 1 EU/µg of rHuRb137, His as determined by LAL method.