

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

Information

Gene ID	
Accession #	
Alternate Names	p105-Rb, pRb, pp110
Source	Escherichia coli.
M.Wt	Approximately 16.5 kDa, a single non-glycosylated polypeptide chain containing 146 amino acids.
AA Sequence	MASFPSSPLR IPGGNIYISP LKSPYKISEG LPTPTKMTTPR SRILVSGES FGTSEKFQKI NQMVCNSDRV LKRSAEGSNP PKPLKCLRFD IEGSDEADGS KHLPGESKFQ QKLAEMTSTR TRMQKQKMND SMDTSNKEEK HHHHHH
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
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.
Biological Activity	
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10µg	100µg	500µg
Recombinant Human Retinoblastoma-Associated Protein Fragment, 137a.a. with His-tag	10µg	100µg	500µg

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

Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/ μ g of rHuRb137, His as determined by LAL method.

Description

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.

Reference

1. Lee WH, Shew JY, Hong FD, et al. 1987. Nature, 329: 642-5
2. Lee WH, Bookstein R, Hong F, et al. 1987. Science, 235: 1394-9
3. Toguchida J, McGee TL, Paterson JC, et al. 1993. Genomics, 17: 535-43
4. Fattaey AR, Helin K, Dembski MS, et al. 1993. Oncogene, 8: 3149-56.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com