
Product Data Sheet

Product Name: RB1 Human
Cat. No.: GP24347
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Synonyms RB; OSRC; RB-1; RB1; p105-Rb; OSTEOSARCOMA; RETINOBLASTOMA-RELATED;PP110; Retinoblastoma-associated protein.

Amino Acid Sequence MASFPSSPLRIPGGNIYISPLKSPYKISEGLPTPTKMTPRSRILVSIKESFGTSEKFQKINQMVCNSDRVLKRSKRAEGSNPPKPLKLRFDIEGSDEADGSKHLF

Solubility It is recommended to reconstitute the lyophilized Retinoblastoma in sterile 18MΩ-cm H₂O not less than 100 µg/ml, which can then FormulationThe RB1 (1 mg/ml) was lyophilized after extensive dialyses against 1xPBS pH-7.4.

Introduction

Retinoblastoma (RB) is an embryonic malignant neoplasm of retinal origin. It almost always presents in early childhood and is often bilateral. Spontaneous regression ('cure') occurs in some cases. Retinoblastoma acts as a regulator of other genes and forms a complex with adenovirus e1a and with sv40 large t antigen. Retinoblastoma acts as a tumor suppressor and modulates functionally certain cellular proteins with which t and e1a compete for pocket binding. Retinoblastoma is potent inhibitor of e2f-mediated trans-activation, recruits and targets histone methyltransferase SUV39h1 leading to epigenetic transcriptional repression, inhibits the intrinsic kinase activity of taf1.

Stability

Lyophilized Retinoblastoma although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Retinoblastoma should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Retinoblastoma Human Recombinant fused with 6X His tag produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a molecular mass of 16.5 kDa. The Retinoblastoma is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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