
Product Data Sheet

Product Name: PSMD10 Human
 Cat. No.: GP22190
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	26S proteasome non-ATPase regulatory subunit 10; 26S proteasome regulatory subunit p28; Gankyrin; PSMD10; p28; dj889N15.2.		
Amino Acid Sequence	MEGCVSNLMV CNLAYSGKLE ELKESILADK SLATRTRDQDS RTALHWACSA GHTEIVEFLL QLGVPVNDKD DAGWSPLHIA ASAGRDEIVK ALLGKGAQVN AVNQNGCTPL HYAASKNRHE IAVMLLEGGA NPDAKDHYEA TAMHRAAAKG NLKMIHILLY YKASTNIQDT EGNTPLHLAC DEERVEEAKL LVSQGASIYI ENKEEKTPLQ VAKGGLGLIL KRMVEG.		
Formulation	The PSMD10 protein solution (1mg/ml) contains 1x PBS pH-7.4 & 10% glycerol.		

Introduction

Gankyrin (proteasome 26S subunit) is a multicatalytic proteinase oncoprotein commonly overexpressed in most hepatocellular carcinomas. Proteasomes are found throughout eukaryotic cells at a high concentrations and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. Gankyrin interacts with S6 ATPase of the 19S regulatory particle of the 26S proteasome. Gankyrin is involved in the regulation of the phosphorylation of the retinoblastoma protein by CDK4, and to enhance the ubiquitinylation of p53 by MDM2. Gankyrin consists of 7 ankyrin repeats and is structurally similar to I kappa Bs. Gankyrin acts as a regulatory subunit of the 26s proteasome which is involved in the atp-dependent degradation of ubiquitinated proteins. Gankyrin is involved in progression of esophageal squamous cell carcinoma. gankyrin plays an oncogenic role especially in early stages of human epatocarcinogenesis. Gankyrin binds to NF-kappaB and suppresses its activity at the transcription level by modulating acetylation through SIRT1. Structural comparison between Gankyrin & p16(INK4A) identified numerous residues of gankyrin that are

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potentially important for CDK4 binding.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PSMD10 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 226 amino acids and having a molecular mass of 24.4 kDa.

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