

Recombinant Human S100P / S100E Protein**Cat.NO.: TP07079**

3th Edition

Synonyms:MIG9

Description:Protein S100-P, also known as Protein S100-E, S100 calcium-binding protein P, S100P and S100E, is a nucleus and cytoplasm protein which belongs to the S-100 family. S100P / S100E contains two EF-hand domains. S100P protein regulates calcium signal transduction and mediates cytoskeletal interaction, protein phosphorylation and transcriptional control. S100P / S100E overexpression can upregulate androgen receptor expression and thereby promote prostate cancer progression by increasing cell growth. S100P / S100E may directly confer resistance to chemotherapy. S100P / S100E induction may be considered an important step in the initial stage of lung adenocarcinomas, whereas its downregulation in advanced stages seems to be important for tumour progression in which DNA methylation and/or feedback transcription processes play a critical role. S100P / S100E plays a major role in the aggressiveness of pancreatic cancer that is likely mediated by its ability to activate RAGE. Interference with S100P / S100E may provide a novel approach for treatment of pancreatic cancer. S100P / S100E could be considered a potential drug target or a chemosensitization target, and could also serve as a biomarker for aggressive, hormone-refractory and metastatic prostate cancer.

Form:PBS**Molecular Weight:**10.4 kDa**Sequences:**Met 1-Lys 95**Purity:**> 95% by HPLC**Concentration:****Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.