

37AA – p53-derived apoptotic Peptide

Catalogue number: 152986

Sub-type:

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: 37AA – p53-derived apoptotic Peptide

Alternate name: pp

Class:

Conjugate:

Description: The transcription factor p53 reacts to diverse cellular stresses regulating target genes that induce senescence, apoptosis, DNA repair, cell cycle arrest or changes in metabolism. p53 is also capable of inducing apoptosis through non-transcriptional cytoplasmic processes. Ubiquitin ligase MDM2 ensures p53 remains inactive in unstressed cells inhibiting p53 transcriptional activity and promoting its degradation via ubiquitination. Modulation of p53 occurs through a variety of post-translational modifications, like phosphorylation and acetylation. The loss of p53 activity is routinely lost in human cancer. This is either due to mutation of the p53 gene or through a loss of cell signalling either, upstream or downstream of p53. The p53-derived peptide: 37AA induces cell death without the need to directly activate p53 target genes. The 37AA peptide also induces cell death in multiple tumour cell types but not in normal cells. 37AA binds directly to iASPP, disrupting the interaction between iASPP and p73 causing derepression of endogenous p73. This subsequently causes activation of p73 target genes and cell death. The peptide also functions in vivo, as administration of a transgene expressing this peptide resulted in tumour regression in a manner dependent on p73.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity:

Host:
Immunogen:
Immunogen UNIPROT ID:
Sequence: MTAKSVTCTYSPALNKMFCQLAKTCPEVVRRCPHHER
Growth properties:
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes: Transformation-related protein 53; TRP53

Target details

Target: P53

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes: Transformation-related protein 53; TRP53

Handling

Format:

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Dry Ice

Related tools

Related tools:

References

References:

CancerTools.org