FOXO4-DRI — FRAGMENT/TRUNCATION: RETAIN ONLY THE FOXO4 CR3-MIMETIC N-TERMINAL HELIX (RESIDUES 1-23, LTLRKEPASEIAQSILEAYSQNG) AND REMOVE THE ENTIRE C-TERMINAL CATIONIC CPP TAIL (RESIDUES 24-46) PLUS THE GG LINKER, YIELDING A CLEAN 23-RESIDUE HELIX-ONLY PEPTIDE FOR EVALUATING THE INTRINSIC P53-BINDING INTERFACE.

generated 2026-05-04T15:59:07.614666+00:00

DISCARDED | LONGEVITY | FRAGMENT/TRUNCATION: RETAIN ONLY THE FOXO4 CR3-MIMETIC N-TERMINAL HELIX (RESIDUES 1-23, LTLRKEPASEIAQSILEAYSQNG) AND REMOVE THE ENTIRE C-TERMINAL CATIONIC CPP TAIL (RESIDUES 24-46) PLUS THE GG LINKER, YIELDING A CLEAN 23-RESIDUE HELIX-ONLY PEPTIDE FOR EVALUATING THE INTRINSIC P53-BINDING INTERFACE. | CELLULAR TUMOR ANTIGEN P53

AVERAGE CONFIDENCE	PTM / IPTM	VERDICT
60.8%	0.395 / 0.205	DISCARDED

TARGET	UNIPROT	BINDING PROBABILITY
Cellular tumor antigen p53	P04637	—

TLDR

—

EXECUTIVE SUMMARY

—

DETAILED ANALYSIS

no research brief recorded.

RESEARCH BRIEF

no research brief recorded.

SEQUENCES

NATIVE

```
LTLRKEPASEIAQSILEAYSQNGWANRRSGGKRPPPRRRQRRKKRG
```

MODIFIED

```
LTLRKEPASEIAQSILEAYSQNG
```

CITATIONS

1. **PMID —** (2025) — — The disordered p53 transactivation domain is the target of FOXO4 and the senolytic compound FOXO4-DRI
2. **PMID —** (2022) — — Identification of Hotspots in Synthetic Peptide Inhibitors of the FOXO4:p53 Interaction
3. **PMID —** (2020) — — FOXO4-DRI alleviates age-related testosterone secretion insufficiency by targeting senescent Leydig cells in aged mice
4. **PMID —** (2024) — — FOXO4-DRI improves spermatogenesis in aged mice through reducing senescence-associated secretory phenotype secretion from Leydig cells
5. **PMID —** (2025) — — FOXO4-DRI induces keloid senescent fibroblast apoptosis by promoting nuclear exclusion of upregulated p53-serine 15 phosphorylation

6. **PMID —** (2025) — — FOXO4-DRI regulates endothelial cell senescence via the P53 signaling pathway
7. **PMID —** (2021) — — Targeting senescence-like fibroblasts radiosensitizes non-small cell lung cancer and reduces radiation-induced pulmonary fibrosis
8. **PMID —** (2023) — — Eliminating Senescent Cells Can Promote Pulmonary Hypertension Development and Progress