Introduction

SINE compounds are a new class of cancer therapeutics that selectively block the export of proteins from the nucleus. XPO1 is the sole exportin responsible for the transport of most of the tumor suppressor (TSP) and growth regulator (GRP) out of the nucleus into the cell. XPO1 forms trimeric transport complexes with RanGTP and a cargo molecule, a process promoted by the Ran-binding protein RanRab. These complexes are regulated by the RanGTP cycle and the nuclear import/export. The core of this mechanism of inactivating TSP and GRP is not yet understood.

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