

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

## Product Datasheet

### RI-1, CAS [[415713-60-9]] FBM-10-1617

Article Name	RI-1, CAS [[415713-60-9]]
Biozol Catalog Number	FBM-10-1617
Supplier Catalog Number	10-1617
Alternative Catalog Number	FBM-10-1617-5MG, FBM-10-1617-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	RAD51 inhibitor...
Molecular Weight	361.61
Purity	98% by TLC, NMR (Conforms)
Form	Yellow solid
CAS Number	[415713-60-9]
Formula	C <sub>14</sub> H <sub>11</sub> Cl <sub>3</sub> N <sub>2</sub> O <sub>3</sub>
Application Notes	<p>RI-1 is a potent and selective inhibitor of RAD51 (IC<sub>50</sub> = 5-30 µM), a highly conserved protein that catalyzes DNA repair via homologous recombination.<sup>1</sup> It specifically reduces gene conversion in human cells and stimulates single strand annealing. It covalently binds to Cys319 on the surface of RAD51 and disrupts protein-protein interaction. It potentiates the effect of DNA-damaging agents on tumor cells and is a novel tool for studying DNA repair in cells.<sup>2</sup> Potentiates the killing of glioblastoma cells by ionizing radiation<sup>3</sup> and alkylating drugs<sup>4</sup>.</p>