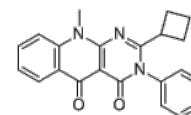


**Product Name** : SRI-41315  
**Cat. No.** : PC-73345  
**CAS No.** : 1613509-49-1  
**Molecular Formula** : C<sub>22</sub>H<sub>19</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 357.413  
**Target** : CFTR  
**Solubility** : 10 mM in DMSO



## Biological Activity

SRI-41315 is a small molecule that induces translational readthrough of **CFTR** nonsense mutations by **eRF1** depletion, restores CFTR expression and function, suppresses CFTR nonsense mutations.

SRI-41315 induces translational readthrough by depleting eRF1 protein level and prolonging the translational pause that occurs at premature termination codons (PTCs).

SRI-41315 reduced eRF1 levels in a manner dependent upon a ubiquitin-mediated proteasome degradation pathway.

SRI-41315 in combination with G418 restores CFTR function in primary bronchial epithelial cells derived from a CF patient with CFTR nonsense alleles.

## References

Sharma J, et al. *Nat Commun.* 2021 Jul 16;12(1):4358.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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