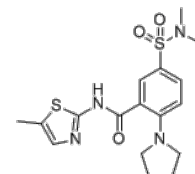


**Product Name** : NGI-1  
**Cat. No.** : PC-60959  
**CAS No.** : 790702-57-7  
**Molecular Formula** : C<sub>17</sub>H<sub>22</sub>N<sub>4</sub>O<sub>3</sub>S<sub>2</sub>  
**Molecular Weight** : 394.508  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



3. Baro M, et al. *Clin Cancer Res.* 2018 Jul 2. pii: clincanres.0792.2018. doi: 10.1158/1078-0432.CCR-18-0792.

## Biological Activity

NGI-1 (ML414) is a potent, cell-permeable **oligosaccharyltransferase (OST)** inhibitor with IC<sub>50</sub> of 1.1 uM.  
 NGI-1 (ML414) blocks cell-surface localization and signaling of the epidermal growth factor receptor (EGFR) glycoprotein in NSCLC cells.  
 NGI-1 (ML414) causes cell-cycle arrest accompanied by induction of p21, autofluorescence, and cell morphology changes, all hallmarks of senescence.  
 NGI-1 (ML414) reduces the production of both OST products (free glycans and N-glycans).  
 NGI-1 (ML414) is a small molecule chemical probe with N-linked glycosylation inhibitory activity.

## References

Puschnik AS, et al. *Cell Rep.* 2017 Dec 12;21(11):3032-3039.  
 Lopez-Sambrooks C, et al. *Nat Chem Biol.* 2016 Dec;12(12):1023-1030.

