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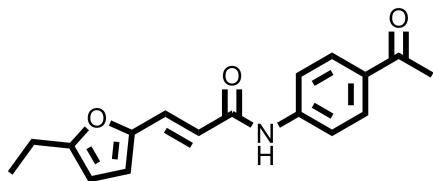
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## HECT E3 Ubiquitin Ligase Inhibitor – Heclin

**Chemical Name:** N-(4-Acetylphenyl)-3-(5-ethyl-2-furanyl)-2-propenamide



Molecular Weight:	283.32
Formula:	C <sub>17</sub> H <sub>17</sub> NO <sub>3</sub>
Purity:	≥98%
CAS#:	890605-54-6
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

### Biological Activity:

Heclin is a selective HECT E3 ubiquitin ligase inhibitor, inhibits Nedd4, Smurf2 and WWP1 with IC<sub>50</sub> 6.3, 6.8 and 6.9 μM respectively. It is selective for HECT-mediated over RING-mediated ubiquitination. Heclin does not block E2 binding but causes a conformational change that results in oxidation of the active site Cys. It kills HEK293 cells growing in culture, consistent with an essential role for HECT ligase activity in mammalian cells.

### How to Use:

**In vitro:** Heclin was used at 10-30 μM final concentration in various in vitro assays.

**In vivo:** n/a

### Reference:

1. Mund T, et al. Peptide and small molecule inhibitors of HECT-type ubiquitin ligases. (2014) Proc Natl Acad Sci USA. 111(47):16736-41.

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