

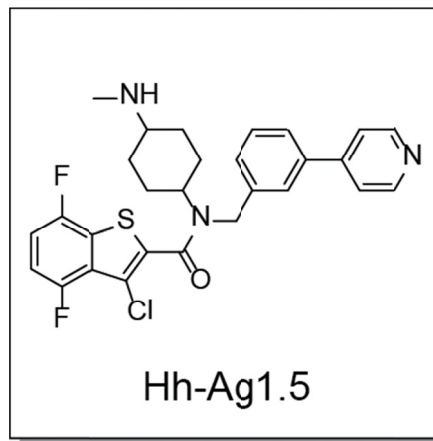


## Product Specification Sheet

**Product Name:** Hh-Ag1.5  
**Catalog Number:** C4412-2 (powder)  
C4412-2s (10 mM in DMSO)  
**Package Size:** 2 mg

### Technical information:

**Chemical Formula:** C<sub>28</sub>H<sub>26</sub>ClF<sub>2</sub>N<sub>3</sub>OS  
**CAS #:** N/A  
**Molecular Weight:** 526.04  
**Purity:** >98%  
**Formulation:** Yellow powder, or clear solution in DMSO  
**Solubility:** Soluble in DMSO up to 50 mM  
**Chemical Name:** 3-chloro-4,7-difluoro-N-(4-(methylamino)cyclohexyl)-N-(3-(pyridin-4-yl)benzyl)benzo[b]thiophene-2-carboxamide  
**Storage:** Store solid powder at 4°C desiccated;  
Store DMSO solution at -20°C.



- Handling:**
- For C4412-2 (powder), add 380  $\mu$ L of DMSO to make 10 mM solution.
  - For C4412-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.

**Biological Activity:** Hh-Ag1.5 is a small-molecule chemical agonist of Smoothed (Smo) receptor and is an activator of sonic hedgehog (Shh) signaling. It is derived from an initial synthetic hit compound "Hh-Ag1.1", and optimized to achieve the activity IC<sub>50</sub> = 1 nM for agonist activity.

- Reference:**
1. The Hedgehog Signaling Pathway as a Target for Anticancer Drug Discovery. Borzillo and Lippa. Current Topics in Medicinal Chemistry 2005, (5), 147-157.
  2. Small-molecule modulators of Hedgehog signaling: identification and characterization of Smoothed agonists and antagonists. Frank-Kamenetsky et. al. Journal of Biology 2002 (1): 10.2-10.19.

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