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# DATASHEET

## SAG

### Product overview

|                          |                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | SAG                                                                                                                               |
| <b>Cat No</b>            | HB3107                                                                                                                            |
| <b>Biological action</b> | Agonist                                                                                                                           |
| <b>Purity</b>            | >98%                                                                                                                              |
| <b>Description</b>       | Cell permeable Sonic hedgehog (Shh) agonist and Smo agonist. Enhances neuronal differentiation of iPSC into dopaminergic neurons. |

### Biological Data

|                               |                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | Potent, cell-permeable Smo receptor agonist ( $K_d = 59$ nM) and hedgehog (Hh) signaling activator. Counteracts cyclopamine inhibition of Smo. Acts as an Smo activator at low concentrations and an inhibitor at high concentrations. Also enhances neuronal differentiation of iPSC into dopaminergic neurons. |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Solubility & Handling

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage instructions</b> | +4 °C                                                                                                                         |
| <b>Important</b>            | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

### Chemical Data

|                           |                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | N-Methyl-N'-(3-pyridinylbenzyl)-N'-(3-chlorobenzo[b]thiophene-2-carbonyl)-1,4-diaminocyclohexane |
| <b>Molecular Weight</b>   | 490.1                                                                                            |
| <b>Chemical structure</b> |               |
| <b>Molecular Formula</b>  | C <sub>28</sub> H <sub>28</sub> ClN <sub>3</sub> OS                                              |
| <b>CAS Number</b>         | 912545-86-9                                                                                      |
| <b>PubChem identifier</b> | 5284330                                                                                          |
| <b>SMILES</b>             | C1C2=C(C(N([C@H]4CC[C@H](NC)CC4)CC3=CC=CC(C5=CC=NC=C5)=C3)=O)SC1=CC=CC=C12                       |
| <b>InChIKey</b>           | VFSUUTYAEQOIMW-YHBQERECSA-N                                                                      |
| <b>Appearance</b>         | Off-white to light yellow powder                                                                 |