

## Product Datasheet

### Tideglusib (orb1223812)

<b>Catalog Number</b>	orb1223812
<b>Category</b>	Small Molecules
<b>Description</b>	<p>Tideglusib is an irreversible, non ATP-competitive GSK-3<math>\beta</math> inhibitor with IC50 of 60 nM in a cell-free assay; fails to inhibit kinases with a Cys homologous to Cys-199 located in the active site. Phase 2.(In Vitro):Incubation of both astrocyte and microglial cultures with Tideglusib (NP031112) completely abrogates the induction of TNF-<math>\alpha</math> and COX-2 expression after glutamate treatment. These effects of NP031112 are not caused by a loss of cell viability, because the 24 h exposure of astrocyte and microglial cells to this TDZD does not modify cell viability.(In Vivo):Injection of Tideglusib (NP031112) (50 mg/kg) into the rat hippocampus dramatically reduces kainic acid-induced inflammation, as measured by edema formation using T2-weighted magnetic resonance imaging and glial activation and has a neuroprotective effect in the damaged areas of the hippocampus.</p>
<b>Target</b>	GSK-3
<b>Purity</b>	>98% (HPLC)
<b>MW</b>	334.39
<b>Target Areas</b>	GSK-3 $\beta$
<b>Solubility (25°C)</b>	DMSO: 1 mg/mL (2.99 mM)
<b>CAS Number</b>	865854-05-3
<b>Formula</b>	C <sub>19</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> S
<b>SMILES</b>	<chem>O=C(N1CC2=CC=CC=C2)N(C3=C4C=CC=CC4=CC=C3)SC1=O</chem>
<b>Chemical Name</b>	2-(1-naphthalenyl)-4-(phenylmethyl)-1,2,4-thiadiazolidine-3,5-dione

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<b>Storage</b>	Storage temperature: -20°C. Stability: $\geq$ 2 years
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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