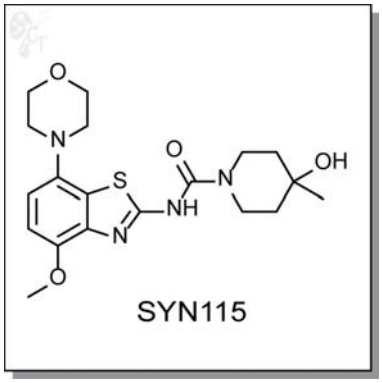
Product Specification Sheet

Product Name: SYN115

Catalog Number: C7911



Technical information:

Chemical Formula: $C_{19}H_{26}N_4O_4S$
CAS #: 870070-55-6
Molecular Weight: 406.5
Purity: > 98%
Appearance: White solid
Solubility: Soluble in DMSO up to 50 mM
Chemical Name: 4-Hydroxy-N-[4-methoxy-7-(4-morpholinyl)-2-benzothiazolyl]-4-methyl-1-piperidinecarboxamide

Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

Handling:
- To make 10 mM stock solution, add 0.246mL of DMSO for each mg of SYN115.
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: SYN115 (Tozadenant) is a orally-available, benzothiazole-based, antagonist of the Adenosine A2A receptor for the treatment of Parkinson's disease and other CNS-related conditions. SYN115 is being pursued as a monotherapy as well as in combination with L-dopamine and is being studied for its potential neuroprotective effects. [1]

Animal studies with SYN115 support beliefs that A2A antagonists reduce Parkinson's symptoms by reducing the inhibitory output of the basal ganglia indirect pathway. Using Cerebral Blood Flow (CBF) as a pharmacodynamic parameter, studies have shown that SYN115 induces a significant decrease in thalamic CBF, consistent with the deactivation of the indirect pathway. [2]

Reference:
1. Biotie Therapies website (2013-04-24)
2. Black et al., Quantification of Indirect Pathway Inhibition by the Adenosine A2a Antagonist SYN115 in Parkinson Disease. Black et al., J. Neurosci. 2010, 30(48), 16284-16292. Pubmed ID: 21123574

To reorder: http://www.cellagentech.com/SYN115/
For Technical Support: technical@cellagentech.com

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