

Product Specification Sheet

Product Name: ABR-215062 (Laquinimod)

Catalog Number: C2215

Technical information:

Chemical Formula: $C_{19}H_{17}ClN_2O_3$

CAS #: 248281-84-7

Molecular Weight: 356.8

Purity: > 98%

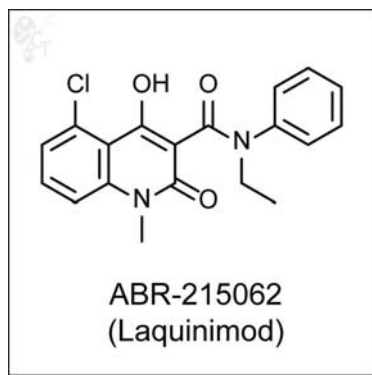
Appearance: White

Solubility: Soluble in DMSO up to 22 mM

Chemical Name: 5-chloro-N-ethyl-4-hydroxy-1-methyl-2-oxo-N-phenyl-1,2-dihydroquinoline-3-carboxamide

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 0.28mL of DMSO for each mg of ABR-215062 (Laquinimod)
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: Laquinimod is an orally-available, quinolinone-based, broad spectrum immunomodulator with anti-inflammatory activity, most likely by effecting a T-helper cell 1 to 2 cytokine shift. [1] Additionally it reduces antigen presentation and the effect on migration of T-cells. Laquinimod is also believed to provide a neuroprotective effect and may have application to relapsing-remitting multiple sclerosis (RRMS). [2]

In animal models for multiple sclerosis, Laquinimod reversed established relapsing remitting experimental autoimmune encephalomyelitis (RR EAE) and was associated with reduced CNS inflammation, decreased Th1 and Th17 responses, and an increase in regulatory T cells. [3]

- Reference:**
1. "Laquinimod for relapsing-remitting multiple sclerosis" National Horizon Scanning Centre technology summary, Aug. 2011.
 2. West et al., Profile of oral laquinimod and its potential in the treatment of multiple sclerosis. Degenerative Neurological Muscular Disease 2011, 1, 25-32.
 3. Schulze-Topphoff et al., Laquinimod, a quinoline-3-carboxamide, induces type II myeloid cells that modulate central nervous system autoimmunity. PLoS ONE 2012, 7(3), e33797. Pubmed ID: 22479444

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