



Product Specification Sheet

Product Name: R837

Catalog Number: C7837

Technical information:

Chemical Formula: $C_{14}H_{16}N_4$

CAS #: 99011-02-6

Molecular Weight: 240.3

Purity: > 98%

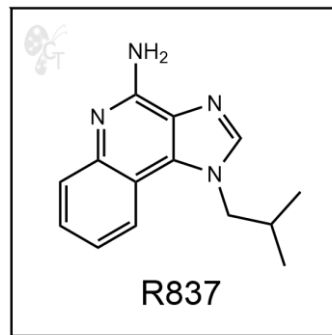
Appearance: White solid

Solubility: Soluble in DMSO up to 5 mM

Chemical Name: 1-isobutyl-1H-imidazo[4,5-c]quinolin-4-amine

Storage: For longer shelf life, store solid powder or DMSO solution at -20°C desiccated.

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 0.416mL of DMSO for each mg of R837.
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: Imiquimod is an immune response modifier that acts as a toll-like receptor 7 agonist and is commonly used topically to treat warts on the skin of the genital and anal areas [1]. Imiquimod is also used topically to treat skin cancers as an alternative to surgery [2].

- Reference:**
1. Sauder DN. Immunomodulatory and pharmacologic properties of imiquimod. J Am Acad Dermatol 2000;43(1 Pt 2):S6-11 Pubmed ID: 10861101
 2. Williams HC, et al. Surgery Versus 5% Imiquimod for Nodular and Superficial Basal Cell Carcinoma: 5-Year Results of the SINS Randomized Controlled Trial. J Invest Dermatol 2017;137(3):614-619 Pubmed ID: 27932240

To reorder: <http://www.cellagentech.com/R837/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.