

Product Data Sheet

Product Name: Rosabulin (STA 5312)

Cat. No.: GC33169

Chemical Properties

Cas. No. 501948-05-6

SMILES O=C(NC1=CC(C)=NS1)C(C2=C3C=CC=CN3C(CC4=CC=C(C#N)C=C4)=C2)=O

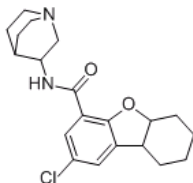
Formula $C_{22}H_{16}N_4O_2S$ M.Wt 400.45

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Rosabulin is a potent microtubule inhibitor, with anti-cancer activities.

Caution: Product has not been fully validated for medical applications. For research use only.

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Rosabulin demonstrates substantial anti-proliferative activity against a wide range of cancer cell lines in vitro, with IC₅₀ values extending down into the nanomolar range. Rosabulin is inhibition of microtubule assembly and subsequent arrest of the cell cycle. Rosabulin is active against several tumor cell lines that express moderate to high levels of P-glycoprotein (Pgp), including lines insensitive to Taxol, Vincristine, and Adriamycin in which Pgp activity is a major contributor to the MDR phenotype[1].

Rosabulin has shown in vivo activity in several murine tumors as well as human tumor xenograft models, including drug resistant tumors[1].

[1]. Keizo Koya, et al. STA-5312, a novel tubulin inhibitor, demonstrates the anti-cancer activity against chemotherapy-resistant cancers. Proc Amer Assoc Cancer Res, Volume 45, 2004

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