

Product Specification Sheet

Product Name: GF120918 (Elacridar)

Catalog Number: C4312

Technical information:

Chemical Formula: $C_{34}H_{33}N_3O_5$

CAS #: 143664-11-3

Molecular Weight: 563.64

Purity: > 98%

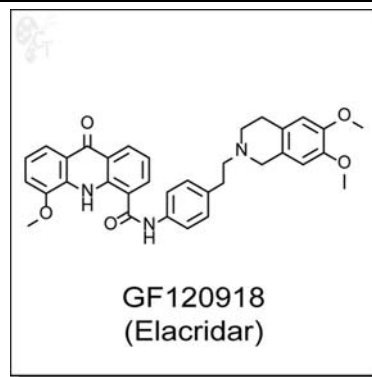
Appearance: white solid

Solubility: Soluble in DMSO up to 10 mM

Chemical Name: N-(4-(2-(6,7-dimethoxy-3,4-dihydroisoquinolin-2(1H)-yl)ethyl)phenyl)-5-methoxy-9-oxo-9,10-dihydroacridine-4-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 0.177mL of DMSO for each mg of GF120918 (Elacridar).

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

Biological Activity: GF120918 (Elacridar) is a very potent inhibitor of the ABC transporters (P-glycoprotein, P-gp) and BCRP. It reverses multidrug resistance at 0.02 to 0.1 μ M in vitro. By blocking the activity of ABC transporter, GF120918 effectively increases the cellular concentration and subsequently increases the cytotoxicity of anti-tumor drugs. (1)

GF120918A has been used both in vitro and in vivo as a tool inhibitor of ABC transporters (or P-glycoprotein) to investigate the role of transporters in the disposition of various test molecules and to offer additional guidance on preclinical dose regimens likely to produce P-glycoprotein-mediated effects. (2)

- Reference:**
1. Hyafil F et al., In vitro and in vivo reversal of multidrug resistance by GF120918, an acridonecarboxamide derivative. Cancer Res. 1993;53(19):4595-602. Pubmed ID: 8402633
 2. Ward KW and Azzarano LM, Preclinical pharmacokinetic properties of the P-glycoprotein inhibitor GF120918A (HCl salt of GF120918, 9,10-dihydro-5-methoxy-9-oxo-N-[4-[2-(1,2,3,4-tetrahydro-6,7-dimethoxy-2-isoquinoliny)ethyl]phenyl]-4-acridine-carboxamide) in the mouse, rat, dog, and monkey. J Pharmacol Exp Ther. 2004;310(2):703-9. Pubmed ID: 15056727

To reorder: <http://www.cellagentech.com/GF120918-Elacridar/>

For Technical Support: technical@cellagentech.com

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