AG-490

JAK inhibitor

AG-490 is a potent inhibitor of the JAK-2 tyrosine kinase. In acute lymphoblastic leukemia (ALL) cells, which abundantly express JAK-2, AG-490 dose-dependently inhibited DNA synthesis, blocked cell growth and induced apoptosis. At 5 μM, AG-490 almost completely blocked the growth of all pre-B ALL cells but had no significant effect on the growth of mitogen-stimulated normal B or T cells, B-cell lymphoma or T-cell leukemia cells. AG-490 does not significantly inhibit other kinases such as Lck, Lyn, Btk, Syk and Src. It blocks interleukin-7-induced JAK kinase activity in T-cells (JAK-1, JAK-3) and the consequent phosphorylation of PI-3 kinase. AG-490 is cell permeable and is a valuable tool for studying the cellular role of JAK kinases in signal transduction.

Citations: 16 View Online »

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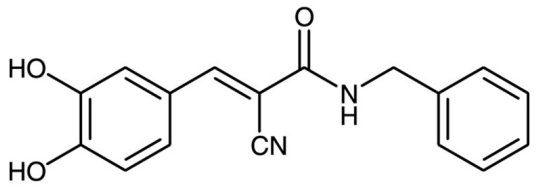
BML-EI272-0050	50mg

Manuals, SDS & CofA View Online »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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Store, as supplied, at -20°C for up to 1 year. Store solutions at -20°C for up to 2 months.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	N-Benzyl-3,4-dihydroxybenzylidenecyanoacetamide
Appearance	Tan solid.
CAS	133550-30-8
Couple Target	JAK
Couple Type	Inhibitor
Formula	$C_{17}H_{14}N_2O_3$
MW	294.3
Purity	≥98% (TLC)
Solubility	Soluble in DMSO (30mg/ml), dimethyl formamide (40mg/ml) or 100% ethanol (10mg/ml).

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