
Product Data Sheet

Product Name: AD 0261
Cat. No.: GC30451

Chemical Properties

Cas. No. 145600-69-7

SMILES OC1=CC=C(C)C=C1NCCCN2CCN(C(C3=CC=C(F)C=C3)C4=CC=C(F)C=C4)CC2

Formula $C_{27}H_{31}F_2N_3O$ M.Wt 451.55

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

Protocol**Cell experiment:**

For measurement of [3H]TdR incorporation, cells are incubated for 16 h and additional (6 h) incubation is carried out in the presence of [3H]TdR (0.5 μ Ci/well). [3H]TdR incorporation is evaluated in a liquid scintillation counter. IL-2 release from lymphocytes is estimated after 20 h incubation by enzyme immunoassay using the commercially available kits. IL-2 receptor expression is quantitated by flow-cytometry using an FITC-labelled monoclonal antibody which recognizes a chain of IL-2 receptor complex. Cell viability is determined by either trypan blue exclusion test or propidium iodide staining.

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

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References:

[1]. M. Sugiura, et al.
Effect of the novel
radical scavenger
AD0261 on
lymphocyte
activation.
Information
Research. Agents
and Actions. August
1994, Volume 41,
Supplement 2, pp
C216-C218.

Background

AD 0261 is a radical scavenger which displays strong inhibitory action on the generation of lipid peroxides and superoxide anions.

AD 0261 displays strong inhibitory action on the generation of lipid peroxides (IC₅₀=0.022 μM) and superoxide anions (IC₅₀= 0.9-4.0 μM). AD 0261 inhibits cytokine release and/or production from PHA-P-stimulated lymphocytes in a dose-dependent manner. AD 0261 inhibits all parameters which are indicative of lymphocyte activation with 50% inhibition being achieved in a range of 1-10 μM. AD 0261 suppresses ornithine decarboxylase activity, the IC₅₀ value being around 1.0 μM[1].

[1]. M. Sugiura, et al. Effect of the novel radical scavenger AD0261 on lymphocyte activation. Information Research. Agents and Actions. August 1994, Volume 41, Supplement 2, pp C216-C218.

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