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DATASHEET

LY 294002 hydrochloride

Product overview

Name	LY 294002 hydrochloride
Cat No	HB2266
Alternative names	TGX-115, PIK-108
Biological action	Inhibitor
Purity	>99%
Description	PI3-K inhibitor. Suppresses mESC proliferation.

Biological Data

Biological description LY 294002 hydrochloride is a competitive and reversible PI3-Kinase inhibitor (IC_{50} values are 0.5, 0.6, 0.3 and 3.8 μ M at p110 α (PI3-K α), p110 β (PI3-K β), p110 δ (PI3-K δ) and p110 γ (PI3-K γ) respectively). It also shows activity at a range of other PI3-K related kinases and other targets.

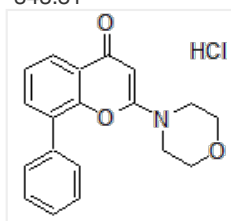
LY 294002 additionally inhibits growth of many tumor types and induces apoptosis. It also suppresses proliferation of mESCs (mouse embryonic stem cells).

Solubility & Handling

Storage instructions Room temperature
Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name 2-(4-Morpholinyl)-8-phenyl-4*H*-1-benzopyran-4-one hydrochloride
Molecular Weight 343.81
Chemical structure



Molecular Formula $C_{19}H_{17}NO_3 \cdot HCl$
CAS Number 934389-88-5
PubChem identifier 11957589
SMILES Cl.O=C1C=C(OC2=C1C=CC=C2C1=CC=CC=C1)N1CCOCC1
InChIKey OQZQSRICUOWBLW-UHFFFAOYSA-N

References

A specific inhibitor of phosphatidylinositol 3-kinase, 2-(4-morpholinyl)-8-phenyl-4H-1-benzopyran-4-one (LY294002).

Vlahos et al (1994) J Biol Chem 269(7)

PubMedID [8106507](#)

Phosphoinositide 3-kinase inhibitor LY294002 but not serum withdrawal suppresses proliferation of murine embryonic stem cells.

Lianguzova et al (2007) Cell Biol Int 31(4)

PubMedID [17321171](#)

The phosphatidylinositol 3-kinase inhibitors wortmannin and LY294002 inhibit autophagy in isolated rat hepatocytes.

Biommaart et al (1997) Eur J Biochem 243(1-2)

PubMedID [9030745](#)
