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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

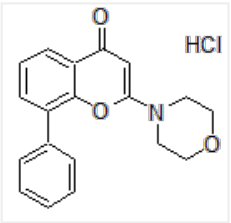
LY 294002 hydrochloride is a competitive and reversible PI3-Kinase inhibitor (IC_{50} values are 0.5, 0.6, 0.3 and 3.8 µM at p110α (PI3-Kα), p110β (PI3-Kβ), p110δ (PI3-Kδ) and p110γ (PI3-Kγ) respectively). It also shows activity at a range of other PI3-K related kinases and other targets.

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-ben zopyran-4-one hydrochloride
Molecular Weight	343.81
Chemical structure	
Molecular Formula	$C_{19}H_{17}NO_3$.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).

Viahos 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